### INDAZOLE-AMINOACETONITRILE DERIVATIVES HAVING SPECIAL **PESTICIDAL ACTIVITY**

Also published as: Publication number: WO03104202 (A1) Publication date: 2003-12-18 ZA200400407 (A) DUCRAY PIERRE [FR]; GOEBEL THOMAS [DE]; Inventor(s): SUS2006025466 (A1) FRUECHTEL JOERG [DE] + US7250436 (B2) NOVARTIS AG [CH]; NOVARTIS PHARMA GMBH [AT]; Applicant(s): RU2004139033 (A) DUCRAY PIERRE [FR]; GOEBEL THOMAS [DE]; FRUECHTEL JOERG [DE] + NZ531085 (A) Classification: more >> - international: A01N25/04; A01N25/12; A01N25/34; A01N43/56; C07D231/56; A01N25/04; A01N25/12; A01N25/34; Cited documents: A01N43/48; C07D231/00; (IPC1-7): A01N43/56; EP0953565 (A2) C07D231/56 A01N43/56; C07D231/56 - European: DE19642863 (A1) **Application number:** WO2003EP05992 20030606 US4943584 (A) Priority number(s): CH20020000976 20020607 Abstract of WO 03104202 (A1)

The invention relates to compounds of the general formula (I), wherein R1, R2, R3, R4, R5, R6, R7, Y and a have the significances given in claim 1, and optionally the enantiomers thereof. The active ingredients have advantageous pesticidal properties. They are especially suitable for controlling parasites on warm-blooded animals.

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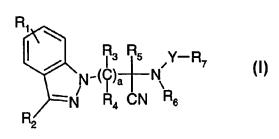
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### (54) Title: INDAZOLE-AMINOACETONITRILE DERIVATIVES HAVING SPECIAL PESTICIDAL ACTIVITY



(57) Abstract: The invention relates to compounds of the general formula (I), wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ , Y and a have the significances given in claim 1, and optionally the enantiomers thereof. The active ingredients have advantageous pesticidal properties. They are especially suitable for controlling parasites on warm-blooded animals.

INDAZOLE-AMINOACETONITRILE DERIVATIVES HAVING SPECIAL PESTICIDAL ACTIVITY

The present invention relates to new aminoacetonitrile compounds of formula

$$\begin{array}{c|c}
R_1 & R_5 & Y - R_7 \\
\hline
N - (C)_a & N & R_6
\end{array}$$

# wherein

 $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -cycloalkyloxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylcarbonyl, halo- $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylamino, di( $C_1$ - $C_6$ -alkyl) amino or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, and halo- $C_1$ - $C_6$ -alkylsulfonyl;

 $R_2$  signifies hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, NR<sub>8</sub>R<sub>9</sub>, hetaryl which is unsubstituted or substituted once or many times, phenyl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy and halo- $C_1$ - $C_6$ -alkoxy;

 $R_3$ ,  $R_4$  und  $R_5$  either, independently of one another, signify hydrogen, halogen,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl;  $C_3$ - $C_6$ -cycloalkyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen and  $C_1$ - $C_6$ -alkyl; phenyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -al

or R<sub>4</sub> and R<sub>5</sub> together signify C<sub>2</sub>-C<sub>6</sub>-alkylene;

 $R_6$  signifies hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkylcarbonyl, aminocarbonyl,  $C_1$ - $C_6$ -alkoxycarbonyl, halo- $C_1$ - $C_6$ -alkylcarbonyl, thio- $C_1$ - $C_6$ -alkylcarbonyl or benzyl;

 $R_7$  signifies hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylamino, di( $C_1$ - $C_6$ -alkyl)amino, aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -cycloalkyloxy,  $\hbox{halo-C$_1$-C$_6$-alkenyl, C$_2$-C$_6$-alkenyl, C$_2$-C$_6$-alkenyl, C$_2$-C$_6$-alkenyl, C$_3$-C$_6$-cycloalkyl, C$_2$-C$_6$-alkenyl, C$_3$-C$_6$-alkenyl, C$_5$-C$_6$-alkenyl, C$_5$-C$_6$-alkeny$ alkenyloxy, halo- $C_2$ - $C_6$ -alkenyloxy,  $C_1$ - $C_6$ -alkylthio, halo- $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -alkylthio, halo- $C_1$ - $C_6$ - $C_6$ -alkylthio, halo- $C_1$ - $C_6$ - $C_$ alkylsulfonyloxy, halo-C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyloxy, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>1</sub>- $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_2$ - $C_6$ -alkenylthio, halo- $C_2$ - $C_6$ -alkenylthio,  $C_2$ - $C_6$ -alkylsulfonyl,  $alkenylsulfinyl,\ halo-C_2-C_6-alkenylsulfinyl,\ C_2-C_6-alkenylsulfonyl,\ halo-C_2-C_6-alkenylsulfonyl,\ halo-C_2-C_6-alkenylsulfonyll,\ halo-C_2-C_6-alkenyls$ C<sub>1</sub>-C<sub>6</sub>-alkylamino, di(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonylamino, halo-C<sub>1</sub>-C<sub>6</sub>alkylsulfonylamino,  $C_1$ - $C_6$ -alkylcarbonyl, halo- $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxycarbonyl,  $C_1$ - $C_6$ -alkylaminocarbonyl, di( $C_1$ - $C_6$ -alkyl)aminocarbonyl; aryl- $C_1$ - $C_6$ -alkyl which is unsubstituted or substituted once or many times, arylamino which is unsubstituted or substituted once or many times, arylcarbonyl which is unsubstituted or substituted once or many times, arylcarbonyloxy which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, aryloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl which is unsubstituted or substituted once or many times, hetaryloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl which is unsubstituted or substituted once or many times, aryloxycarbonyl which is unsubstituted or substituted once or many times, arylsulfonyl which is unsubstituted or substituted once or many times, arylsulfonylamino which is unsubstituted or substituted once or many times, pyridyloxy which is unsubstituted or substituted once or many times, and phenylacetylenyl which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, halo- $C_1-C_6-alkylthio,\ C_1-C_6-alkylsulfinyl,\ halo-C_1-C_6-alkylsulfinyl,\ C_1-C_6-alkylsulfonyl\ and\ halo-C_1-C_6-alkylsulfonyl\ a$ C<sub>6</sub>-alkylsulfonyl;

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_2$ - $C_6$ -alkenyloxy, halo- $C_2$ - $C_6$ -alkenyloxy,  $C_1$ - $C_6$ -alkylthio, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_2$ - $C_6$ -alkenylthio, halo- $C_2$ - $C_6$ -alkenylsulfinyl, halo-

 $C_2\text{-}C_6\text{-alkenylsulfinyl},\ C_1\text{-}C_6\text{-alkylsulfonyl},\ halo\text{-}C_1\text{-}C_6\text{-alkylsulfonyl},\ C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ C_1\text{-}C_6\text{-alkylamino}\ and\ di(C_1\text{-}C_6\text{-alkyl})amino;\ or\ unsubstituted\ naphthyl\ or\ quinolyl\ or\ quinolyl\ which\ is\ substituted\ once\ or\ many\ times,\ whereby\ the\ substituents\ may\ be\ independent\ of\ one\ another\ and\ are\ selected\ from\ the\ group\ consisting\ of\ halogen,\ nitro,\ cyano,\ C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_1\text{-}C_6\text{-alkyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfinyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfinyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfinyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkenylsulfonyl},\ halo\text{-}C_2\text{-}C_6\text{-alkylamino}$ 

 $R_8$  and  $R_9$ , independently of one another, signify hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkylcarbonyl, thio- $C_1$ - $C_6$ -alkylcarbonyl, aryl or hetaryl;

Y signifies a direct bond, C(O), C(S) or S(O),;

a signifies 1, 2 or 3; and

n is 1 or 2;

their preparation and use in the control of endo- and ectoparasites, especially helminths, in and on warm-blooded productive livestock and domestic animals and plants, and furthermore pesticides containing at least one of these compounds.

Substituted aminoacetonitrile compounds having pesticidal activity are described for example in EP-0.953.565 A2. However, the active ingredients specifically disclosed therein cannot always fulfil the requirements regarding potency and activity spectrum. There is therefore a need for active ingredients with improved pesticidal properties. It has now been found that the aminoacetonitrile compounds of formula I have excellent pesticidal properties, especially against endo- and ecto-parasites in and on productive livestock and domestic animals and plants.

Aryl is phenyl or naphthyl.

Hetaryl is pyridyl, pyrimidyl, s-triazinyl, 1,2,4-triazinyl, thienyl, furanyl, pyrryl, pyrazolyl, imidazolyl, thiazolyl, triazolyl, oxazolyl, thiadiazolyl, oxadiazolyl, benzothienyl, benzofuranyl, benzothiazolyl, indolyl or indazolyl, preferably pyridyl, pyrimidyl, s-triazinyl or 1,2,4-triazinyl, especially pyridyl or pyrimidyl.

Alkyl - as a group per se and as structural element of other groups and compounds, for

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example halogen-alkyl, alkoxy, and alkylthio - is, in each case with due consideration of the specific number of carbon atoms in the group or compound in question, either straight-chained, i.e. methyl, ethyl, propyl, butyl, pentyl or hexyl, or branched, e.g. isopropyl, isobutyl, sec.-butyl, tert.-butyl, isopentyl, neopentyl or isohexyl.

Alkenyl - as a group *per se* and as structural element of other groups and compounds - is, in each case with due consideration of the specific number of carbon atoms in the group or compound in question and of the conjugated or isolated double bonds - either straight-chained, e.g. allyl, 2-butenyl, 3-pentenyl, 1-hexenyl or 1,3-hexadienyl, or branched, e.g. isopropenyl, isobutenyl, isoprenyl, tert.-pentenyl or isohexenyl.

Alkinyl - as a group *per se* and as structural element of other groups and compounds - is, in each case with due consideration of the specific number of carbon atoms in the group or compound in question and of the conjugated or isolated double bonds - either straight-chained, e.g. propargyl, 2-butinyl, 3-pentinyl, 1-hexinyl, 1-heptinyl or 3-hexen-1-inyl, or branched, e.g. 3-methylbut-1-inyl, 4-ethylpent-1-inyl or 4-methylhex-2-inyl.

Cycloalkyl - as a group *per se* and as structural element of other groups and compounds such as halocycloalkyl, - is, in each case with due consideration of the specific number of carbon atoms in the group or compound in question, cyclopropyl, cyclobutyl, cyclopentyl or cyclohexyl.

Halogen - as a group *per se* and as structural element of other groups and compounds such as haloalkyl, haloalkoxy and haloalkylthio - is fluorine, chlorine, bromine or iodine, especially fluorine, chlorine or bromine, in particular fluorine or chlorine.

Halogen-substituted carbon-containing groups and compounds, such as haloalkyl, haloalk-oxy or haloalkylthio, may be partially halogenated or perhalogenated, whereby in the case of multiple halogenation, the halogen substituents may be identical or different. Examples of halogen-alkyl - as a group *per se* and as structural element of other groups and compounds such as haloalkoxy or haloalkylthio, - are methyl which is mono- to trisubstituted by fluorine, chlorine and/or bromine, such as CHF<sub>2</sub> or CF<sub>3</sub>; ethyl which is mono- to pentasubstituted by fluorine, chlorine and/or bromine, such as CH<sub>2</sub>CF<sub>3</sub>, CF<sub>2</sub>CF<sub>3</sub>, CF<sub>2</sub>CCl<sub>3</sub>, CF<sub>2</sub>CHCl<sub>2</sub>, CF<sub>2</sub>CHF<sub>2</sub>, CF<sub>2</sub>CHCl<sub>2</sub>, CF<sub>2</sub>CHClF, CF<sub>2</sub>CHBrF or CCIFCHClF; propyl or isopropyl, mono- to heptasubstituted by fluorine, chlorine and/or bromine, such as CH<sub>2</sub>CHBrCH<sub>2</sub>Br, CF<sub>2</sub>CHFCF<sub>3</sub>, CH<sub>2</sub>CF<sub>2</sub>CF<sub>3</sub> or CH(CF<sub>3</sub>)<sub>2</sub>; butyl or one of its isomers, mono- to nonasubstituted by fluorine, chlorine and/or bromine, such as CF(CF<sub>3</sub>)CHFCF<sub>3</sub> or CH<sub>2</sub>(CF<sub>2</sub>)<sub>2</sub>CF<sub>3</sub>; pentyl or one of its isomers substituted once to eleven times by fluorine, chlorine and/or bromine, such as

 $CF(CF_3)(CHF)_2CF_3$  or  $CH_2(CF_2)_3CF_3$ ; and hexyl or one of its isomers substituted once to thirteen times by fluorine, chlorine and/or bromine, such as  $(CH_2)_4CHBrCH_2Br$ ,  $CF_2(CHF)_4CF_3$ ,  $CH_2(CF_2)_4CF_3$  or  $C(CF_3)_2(CHF)_2CF_3$ .

Alkoxy groups preferably have a chain length of 1 to 6 carbon atoms. Alkoxy is for example methoxy, ethoxy, propoxy, isopropoxy, n-butoxy, isobutoxy, sec.-butoxy and tert.-butoxy, as well as the isomers pentyloxy and hexyloxy; preferably methoxy and ethoxy. Haloalkoxy groups preferably have a chain length of 1 to 6 carbon atoms. Haloalkoxy is e.g. fluoromethoxy, difluoromethoxy, trifluoromethoxy, 2,2,2-trifluoroethoxy, 1,1,2,2-tetrafluoroethoxy, 2-fluoroethoxy, 2-chloroethoxy, 2,2-difluoromethoxy and 2,2,2-trichloroethoxy; preferably difluoromethoxy, 2-chloroethoxy and trifluoromethoxy.

Alkylthio groups preferably have a chain length of 1 to 6 carbon atoms. Alkylthio is for example methylthio, ethylthio, propylthio, isopropylthio, n-butylthio, isobutylthio, sec.-butylthio or tert.-butylthio, preferably methylthio and ethylthio.

Preferred embodiments within the scope of the invention are:

- (1) A compound of formula I, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylcarbonyl, halo- $C_1$ - $C_4$ -alkylsulfonyl or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy; especially hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy;
- most particularly hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or halo- $C_1$ - $C_2$ -alkoxy;
- (2) A compound of formula I, wherein  $R_2$  signifies hydrogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_4$ -alkylsulfonyl;
- especially hydrogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or halo- $C_1$ - $C_2$ -alkoxy; most particularly hydrogen, methyl or halomethyl;
- (3) A compound of formula I, wherein  $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, are hydrogen, halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl; phenyl that is either

unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylthio; or  $R_4$  and  $R_5$  together are  $C_2$ - $C_6$ -alkylene;

especially, independently of one another, hydrogen, halogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl or  $C_3$ - $C_6$ -cycloalkyl;

most particularly, independently of one another, hydrogen, methyl or halomethyl;

(4) A compound of formula I, wherein  $R_6$  is hydrogen,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkyl or benzyl;

especially hydrogen,  $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkylcarbonyl or benzyl;

most particularly hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl;

(5) A compound of formula I, wherein R<sub>7</sub> signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>2</sub>-C<sub>4</sub>-alkenyl, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkinyl, C<sub>3</sub>-C<sub>6</sub>cycloalkyl,  $C_2$ - $C_4$ -alkenyloxy, halo- $C_2$ - $C_4$ -alkenyloxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4-alkylsulfonyloxy,\ halo-C_1-C_4-alkylsulfonyloxy,\ C_1-C_4-alkylsulfonyl,\ halo-C_1-C_4-alkylsulfonyl,\ halo-C_1-C_4-alkylsulf$  $C_2$ - $C_4$ -alkenylsulfonyl, halo- $C_2$ - $C_4$ -alkenylsulfonyl,  $C_1$ - $C_4$ -alkylamino, di( $C_1$ - $C_4$ -alkyl)amino,  $C_1$ -C<sub>4</sub>-alkylcarbonyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl; aryl-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, aryloxy-C1-C4-alkyl which is unsubstituted or substituted once or many times, hetaryloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, aryloxycarbonyl which is unsubstituted or substituted once or many times, arylsulfonyl which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl; hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of

halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_2$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl; or

naphthyl or quinolyl which are unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkenyloxy, halo- $C_2$ - $C_4$ -alkenyloxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_2$ - $C_4$ -alkenylthio, halo- $C_2$ - $C_4$ -alkenylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl;

in particular aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_3$ - $C_5$ -cycloalkyl,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylsulfonyl,  $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl; or

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>2</sub>-alkyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, C<sub>1</sub>-C<sub>2</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>2</sub>-alkylthio, C<sub>1</sub>-C<sub>2</sub>-alkylsulfonyl and halo-C<sub>1</sub>-C<sub>2</sub>-alkylsulfonyl;

most particularly aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl,  $C_1$ - $C_2$ -alkoxycarbonyl; aryl- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, and aryloxy- $C_1$ - $C_2$ -alkyl which is unsubstituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy and halo- $C_1$ - $C_2$ -alkoxy;

- (6) a compound of formula I, wherein  $R_8$  und  $R_9$  independently of one another, signify hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxycarbonyl,  $C_1$ - $C_6$ -alkylcarbonyl or aryl; especially, independently of one another, hydrogen or  $C_1$ - $C_4$ -alkyl; especially, independently of one another, hydrogen or  $C_1$ - $C_2$ -alkyl;
- (7) A compound of formula I, wherein Y is C(O) or  $S(O)_n$ ; especially C(O);
- (8) A compound of formula I, wherein a is 1 or 2; especially 1;
- (9) A compound of formula I, wherein n is 2;
- (10) A compound of formula I, wherein

 $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylcarbonyl, halo- $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_4$ -alkylsulfonyl or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy;

 $R_2$  is hydrogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylsulfonyl;

 $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, are hydrogen, halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl; phenyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylthio and halo- $C_1$ - $C_4$ -alkylthio; or  $R_4$  and  $R_5$  together are  $C_2$ - $C_6$ -alkylene;

 $R_6$  is hydrogen,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkyl or benzyl;

 $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_2$ - $C_4$ -alkenyl, halo- $C_2$ - $C_4$ -alkenyl,  $C_2$ - $C_4$ -alkenyl,  $C_3$ - $C_6$ -cycloalkyl,  $C_2$ - $C_4$ -alkenyloxy, halo- $C_2$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyloxy, halo- $C_1$ - $C_4$ -alkylsulfonyl,  $C_2$ - $C_4$ -alkenyloxyl, halo- $C_2$ -alkylsulfonyl, halo- $C_1$ - $C_4$ -alkylsulfonyl, halo- $C_2$ - $C_4$ - $C_4$ -alkylsulfonyl, halo- $C_2$ - $C_4$ -

 $C_4$ -alkenylsulfonyl,  $C_1$ - $C_4$ -alkylamino, di( $C_1$ - $C_4$ -alkyl)amino,  $C_1$ - $C_4$ -alkylcarbonyl, halo- $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxycarbonyl; aryl- $C_1$ - $C_4$ -alkyl which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, hetaryloxy- $C_1$ - $C_4$ -alkyl which is unsubstituted or substituted once or many times, aryloxycarbonyl which is unsubstituted or substituted once or many times, aryloxycarbonyl which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylsulfonyl;

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_2$ - $C_4$ -alkoxy, halo- $C_2$ - $C_4$ -alkenyloxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl; or

naphthyl or quinolyl which are unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_2$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl;

 $R_8$  und  $R_9$  independently of one another, signify hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl or aryl;

Y is C(O) or  $S(O)_n$ ;

a signifies 1 or 2; and

n signifies 2;

# (11) A compound of formula I, wherein

 $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy;

 $R_2$  signifies hydrogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or halo- $C_1$ - $C_2$ -alkoxy;

 $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, signify hydrogen, halogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl or  $C_3$ - $C_6$ -cycloalkyl;

 $R_6$  signifies hydrogen,  $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkylcarbonyl or benzyl;

 $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_3$ - $C_5$ -cycloalkyl,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylsulfonyl,  $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl; or

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl;

R<sub>8</sub> and R<sub>9</sub>, independently of one another, signify hydrogen or C<sub>1</sub>-C<sub>4</sub>-alkyl;

Y signifies C(O);

a signifies 1; and

n signifies 2;

(12) A compound of formula I, wherein

R<sub>1</sub> signifies hydrogen, halogen, cyano, nitro, C<sub>1</sub>-C<sub>2</sub>-alkyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy or halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy;

R<sub>2</sub> is hydrogen, methyl or halomethyl;

R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub>, independently of one another, signify hydrogen, methyl or halomethyl;

R<sub>6</sub> signifies hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl;

 $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_3$ - $C_5$ -cycloalkyl,  $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl,  $C_1$ - $C_2$ -alkoxycarbonyl; aryl- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, and aryloxy- $C_1$ - $C_2$ -alkyl which is unsubstituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy and halo- $C_1$ - $C_2$ -alkoxy;

 $R_8$  and  $R_9$ , independently of one another, signify hydrogen or  $C_1\text{-}C_2\text{-alkyl}$ ;

Y signifies C(O);

a signifies 1; and

n is 2.

Within the context of the invention, particular preference is given to the compounds of formula I listed in Table 1, and most particularly those named in the synthesis examples.

A further object of the invention is the process for the preparation of the compounds of formula I, respectively in free form or in salt form, for example characterised in that a compound of formula

which is known or may be produced analogously to corresponding known compounds, and wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$  and a are defined as given for formula I, is reacted with a compound of formula

which is known or may be prepared analogously to corresponding known compounds, and wherein Y and R<sub>7</sub> are defined as given for formula I and Q is a leaving group, optionally in the presence of a basic catalyst, and if desired, a compound of formula I obtainable according to the method or in another way, respectively in free form or in salt form, is converted into another compound of formula I, a mixture of isomers obtainable according to

the method is separated and the desired isomer isolated and/or a free compound of formula I obtainable according to the method is converted into a salt or a salt of a compound of formula I obtainable according to the method is converted into the free compound of formula I or into another salt.

What has been stated above for salts of compounds I also applies analogously to salts of the starting materials listed hereinabove and hereinbelow.

The reaction partners can be reacted with one another as they are, i.e. without the addition of a solvent or diluent, e.g. in the melt. In most cases, however, the addition of an inert solvent or diluent, or a mixture thereof, is of advantage. Examples of such solvents or diluents are: aromatic, aliphatic and alicyclic hydrocarbons and halogenated hydrocarbons, such as benzene, toluene, xylene, mesitylene, tetraline, chlorobenzene, dichlorobenzene, bromobenzene, petroleum ether, hexane, cyclohexane, dichloromethane, trichloromethane, trichloromethane, trichloromethane, trichloroethene or tetrachloroethene; ethers, such as diethyl ether, dipropyl ether, diisopropyl ether, dibutyl ether, tert-butyl methyl ether, ethylene glycol monomethyl ether, ethylene glycol monomethyl ether, ethylene glycol monomethyl ether, tetrahydrofuran or dioxane; ketones such as acetone, methyl ethyl ketone or methyl isobutyl ketone; amides such as N,N-dimethylformamide, N,N-diethylformamide, N,N-dimethylacetamide, N-methylpyrrolidone or hexamethylphosphoric acid triamide; nitriles such as acetonitrile or propionitrile; and sulfoxides, such as dimethyl sulfoxide.

Preferred leaving groups are halogens, especially chlorine.

Suitable bases for facilitating the reaction are e.g. alkali metal or alkaline earth metal hydroxides, hydrides, amides, alkanolates, acetates, carbonates, dialkylamides or alkylsilylamides; alkylamines, alkylenediamines, optionally N-alkylated, optionally unsaturated, cycloalkylamines, basic heterocycles, ammonium hydroxides, as well as carbocyclic amines. Those which may be mentioned by way of example are sodium hydroxide, hydride, amide, methanolate, acetate, carbonate, potassium tert.-butanolate, hydroxide, carbonate, hydride, lithium diisopropylamide, potassium bis(trimethylsilyl)-amide, calcium hydride, triethylamine, diisopropylethylamine, triethylenediamine, cyclohexylamine, N-cyclohexyl-N,N-dimethylamine, N,N-diethylaniline, pyridine, 4-(N,N-dimethylamino)pyridine, quinuclidine, N-methylmorpholine, benzyltrimethylammonium hydroxide, as well as 1,5-diazabicyclo[5.4.0]undec-5-ene (DBU). Preference is given to diisopropylethylamine and 4-(N,N-dimethylamino)pyridine.

The reaction advantageously takes place in a temperature range of ca. 0°C to ca. 100°C,

preferably from ca. 10°C to ca. 40°C.

In a preferred process, a compound of formula II is reacted at room temperature in a halogenated hydrocarbon, preferably dichloromethane, with a compound of formula III in the presence of a base, preferably a mixture of diisopropylethylamine and 4-(N,N-dimethylamino)pyridine.

A further object of the invention is the process for the preparation of the compounds of formula II, respectively in free form or in salt form, for example characterised in that a compound of formula

$$\begin{array}{c|c}
R_1 \\
R_2 \\
N^{-\binom{C}{2}} \\
R_4 \\
0
\end{array}$$
IV,

which is known or may be produced analogously to corresponding known compounds, in which  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and a are defined as for formula I, is reacted with an inorganic or organic cyanide and a compound of formula  $R_6$ -NH $_2$ , which is known or may be produced analogously to corresponding known compounds and wherein  $R_6$  is defined as for formula I, and if desired, a compound of formula II obtainable according to the method or in another way, respectively in free form or in salt form, is converted into another compound of formula II, a mixture of isomers obtainable according to the method is separated and the desired isomer isolated and/or a free compound of formula II obtainable according to the method is converted into a salt or a salt of a compound of formula II obtainable according to the method is converted into the free compound of formula II or into another salt

Suitable cyanides are sodium cyanide, potassium cyanide, trimethylsilyl cyanide and acetone cyanohydrin.

The general method for reacting carbonyl compounds, e.g. of formula IV, with cyanides and amines, e.g. of formula  $R_6$ -NH<sub>2</sub>, is a Strecker reaction, for example as in Organic Synthesis Coll. Vol. 3, 88 (1973).

Salts of compounds I may be produced in known manner. Acid addition salts of compounds I, for example, are obtainable by treatment with a suitable acid or a suitable ion exchange reagent, and salts with bases are obtainable by treatment with a suitable base or a suitable ion exchange reagent.

Salts of compounds I can be converted into the free compounds I by the usual means, acid addition salts e.g. by treating with a suitable basic composition or with a suitable ion exchange reagent, and salts with bases e.g. by treating with a suitable acid or a suitable ion exchange reagent.

Salts of compounds I can be converted into other salts of compounds I in a known manner; acid addition salts can be converted for example into other acid addition salts, e.g. by treating a salt of an inorganic acid, such as a hydrochloride, with a suitable metal salt, such as a sodium, barium, or silver salt, of an acid, e.g. with silver acetate, in a suitable solvent, in which a resulting inorganic salt, e.g. silver chloride, is insoluble and thus precipitates out from the reaction mixture.

Depending on the method and/or reaction conditions, compounds I with salt-forming characteristics can be obtained in free form or in the form of salts.

Compounds I can also be obtained in the form of their hydrates and/or also can include other solvents, used for example where necessary for the crystallisation of compounds present in solid form.

The compounds I may be optionally present as optical and/or geometric isomers or as a mixture thereof. The invention relates both to the pure isomers and to all possible isomeric mixtures, and is hereinbefore and hereinafter understood as doing so, even if stereochemical details are not specifically mentioned in every case.

Diastereoisomeric mixtures of compounds I, which are obtainable by the process or in another way, may be separated in known manner, on the basis of the physical-chemical differences in their components, into the pure diastereoisomers, for example by fractional crystallisation, distillation and/or chromatography.

Splitting of mixtures of enantiomers, that are obtainable accordingly, into the pure isomers, may be achieved by known methods, for example by recrystallisation from an optically active solvent, by chromatography on chiral adsorbents, e.g. high-pressure liquid chromatography (HPLC) on acetyl cellulose, with the assistance of appropriate micro-organisms, by cleavage with specific immobilised enzymes, through the formation of inclusion compounds, e.g. using chiral crown ethers, whereby only one enantiomer is complexed.

According to the invention, apart from separation of corresponding isomer mixtures, generally known methods of diastereoselective or enantioselective synthesis can also be applied to obtain pure diastereoisomers or enantiomers, e.g. by carrying out the method of

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the invention using educts with correspondingly suitable stereochemistry.

It is advantageous to isolate or synthesise the biologically more active isomer, e.g. enantiomer, provided that the individual components have differing biological efficacy.

In the method of the present invention, the starting materials and intermediates used are preferably those that lead to the compounds I described at the beginning as being especially useful.

The invention relates especially to the method of preparation described in the example.

Starting materials and intermediates, which are new and are used according to the invention for the preparation of compounds I, as well as their usage and process for the preparation thereof, similarly form an object of the invention.

The compounds I according to the invention are notable for their particularly broad activity spectrum and are valuable active ingredients for use in pest control, including in particular the control of endo- and ecto-parasites on animals, whilst being well-tolerated by warm-blooded animals, fish and plants,

In the context of the present invention, ectoparasites are understood to be in particular insects, mites and ticks. These include insects of the order: Lepidoptera, Coleoptera, Homoptera, Heteroptera, Diptera, Thysanoptera, Orthoptera, Anoplura, Siphonaptera, Mallophaga, Thysanura, Isoptera, Psocoptera and Hymenoptera. However, the ectoparasites which may be mentioned in particular are those which trouble humans or animals and carry pathogens, for example flies such as Musca domestica, Musca vetustissima, Musca autumnalis, Fannia canicularis, Sarcophaga carnaria, Lucilia cuprina, Hypoderma bovis. Hypoderma lineatum, Chrysomyia chloropyga, Dermatobia hominis, Cochliomyia hominivorax, Gasterophilus intestinalis, Oestrus ovis, Stomoxys calcitrans, Haematobia irritans and midges (Nematocera), such as Culicidae, Simuliidae, Psychodidae, but also blood-sucking parasites, for example fleas, such as Ctenocephalides felis and Ctenocephalides canis (cat and dog fleas), Xenopsylla cheopis, Pulex irritans, Dermatophilus penetrans, lice, such as Damalina ovis, Pediculus humanis, biting flies and horse-flies (Tabanidae), Haematopota spp. such as Haematopota pluvialis, Tabanidea spp. such as Tabanus nigrovittatus, Chrysopsinae spp. such as Chrysops caecutiens, tsetse flies, such as species of Glossinia, biting insects, particularly cockroaches, such as Blatella germanica, Blatta orientalis, Periplaneta americana, mites, such as Dermanyssus gallinae, Sarcoptes scabiei, Psoroptes ovis and Psorergates spp. and last but not least ticks. The

latter belong to the order *Acarina*. Known representatives of ticks are, for example, *Boophilus, Amblyomma, Anocentor, Dermacentor, Haemaphysalis, Hyalomma, Ixodes, Rhipicentor, Margaropus, Rhipicephalus, Argas, Otobius* and *Ornithodoros* and the like, which preferably infest warm-blooded animals including farm animals, such as cattle, pigs, sheep and goats, poultry such as chickens, turkeys and geese, fur-bearing animals such as mink, foxes, chinchillas, rabbits and the like, as well as domestic animals such as cats and dogs, but also humans.

Compounds I can also be used against hygiene pests, especially of the order *Diptera* of the families *Sarcophagidae*, *Anophilidae* and *Culicidae*; the orders *Orthoptera*, *Dictyoptera* (e.g. the family *Blattidae*) and *Hymenoptera* (e.g. the family *Formicidae*).

Compounds I also have sustainable efficacy on parasitic mites and insects of plants. In the case of spider mites of the order *Acarina*, they are effective against eggs, nymphs and adults of *Tetranychidae* (*Tetranychus spp.* and *Panonychus spp.*).

They have high activity against sucking insects of the order *Homoptera*, especially against pests of the families *Aphididae*, *Delphacidae*, *Cicadellidae*, *Psyllidae*, *Loccidae*, *Diaspididae* and *Eriophydidae* (e.g. rust mite on citrus fruits); the orders *Hemiptera*, *Heteroptera* and *Thysanoptera*, and on the plant-eating insects of the orders *Lepidoptera*, *Coleoptera*, *Diptera* and *Orthoptera* 

They are similarly suitable as a soil insecticide against pests in the soil.

The compounds of formula I are therefore effective against all stages of development of sucking insects and eating insects on crops such as cereals, cotton, rice, maize, soya, potatoes, vegetables, fruit, tobacco, hops, citrus, avocados and other crops.

The compounds of formula I are also effective against plant nematodes of the species *Meloidogyne, Heterodera, Pratylenchus, Ditylenchus, Radopholus, Rizoglyphus* etc.

In particular, the compounds are effective against helminths, in which the endoparasitic nematodes and trematodes may be the cause of serious diseases of mammals and poultry, e.g. sheep, pigs, goats, cattle, horses, donkeys, dogs, cats, guinea-pigs and exotic birds. Typical nematodes of this indication are: *Haemonchus, Trichostrongylus, Ostertagia, Nematodirus, Cooperia, Ascaris, Bunostonum, Oesophagostonum, Charbertia, Trichuris, Strongylus, Trichonema, Dictyocaulus, Capillaria, Heterakis, Toxocara, Ascaridia, Oxyuris, Ancylostoma, Uncinaria, Toxascaris* and *Parascaris*. The trematodes include, in particular, the family of *Fasciolideae*, especially *Fasciola hepatica*. It could also be shown surprisingly

and unexpectedly that the compounds of formula I have exceptionally high efficacy against nematodes that are resistant to many active substances. This can be demonstrated *in vitro* by the LDA test and *in vivo* for example in Mongolian gerbils and sheep. It was shown that amounts of active substance which kill sensitive strains of *Haemonchus contortus* or *Trichostrongylus colubriformis*, are also sufficiently effective at controlling corresponding strains that are resistant to benzimidazoles, levamisol and macrocyclic lactones (for example ivermectin).

Certain pests of the species *Nematodirus*, *Cooperia* and *Oesophagostonum* infest the intestinal tract of the host animal, while others of the species *Haemonchus* and *Ostertagia* are parasitic in the stomach and those of the species *Dictyocaulus* are parasitic in the lung tissue. Parasites of the families *Filariidae* and *Setariidae* may be found in the internal cell tissue and in the organs, e.g. the heart, the blood vessels, the lymph vessels and the subcutaneous tissue. A particularly notable parasite is the heartworm of the dog, *Dirofilaria immitis*. The compounds of formula I are highly effective against these parasites.

Furthermore, the compounds of formula I are suitable for the control of human pathogenic parasites. Of these, typical representatives that appear in the digestive tract are those of the species *Ancylostoma*, *Necator*, *Ascaris*, *Strongyloides*, *Trichinella*, *Capillaria*, *Trichuris* and *Enterobius*. The compounds of the present invention are also effective against parasites of the species *Wuchereria*, *Brugia*, *Onchocerca* and *Loa* from the family of *Filariidae*, which appear in the blood, in the tissue and in various organs, and also against *Dracunculus* and parasites of the species *Strongyloides* and *Trichinella*, which infect the gastrointestinal tract in particular.

The good pesticidal activity of the compounds of formula I according to the invention corresponds to a mortality rate of at least 50-60% of the pests mentioned. In particular, the compounds of formula I are notable for the exceptionally long duration of efficacy.

The compounds of formula I are preferably employed in unmodified form or preferably together with the adjuvants conventionally used in the art of formulation and may therefore be processed in a known manner to give, for example, emulsifiable concentrates, directly dilutable solutions, dilute emulsions, soluble powders, granules or microencapsulations in polymeric substances. As with the compositions, the methods of application are selected in accordance with the intended objectives and the prevailing circumstances.

The formulation, i.e. the agents, preparations or compositions containing the active ingredient of formula I, or combinations of these active ingredients with other active

ingredients, and optionally a solid or liquid adjuvant, are produced in a manner known *per se*, for example by intimately mixing and/or grinding the active ingredients with spreading compositions, for example with solvents, solid carriers, and optionally surface-active compounds (surfactants).

The solvents in question may be: alcohols, such as ethanol, propanol or butanol, and glycols and their ethers and esters, such as propylene glycol, dipropylene glycol ether, ethylene glycol, ethylene glycol monomethyl or -ethyl ether, ketones, such as cyclohexanone, isophorone or diacetanol alcohol, strong polar solvents, such as N-methyl-2-pyrrolidone, dimethyl sulfoxide or dimethylformamide, or water, vegetable oils, such as rape, castor, coconut, or soybean oil, and also, if appropriate, silicone oils.

Preferred application forms for usage on warm-blooded animals in the control of helminths include solutions, emulsions, suspensions (drenches), food additives, powders, tablets including effervescent tablets, boli, capsules, micro-capsules and pour-on formulations, whereby the physiological compatibility of the formulation excipients must be taken into consideration.

The binders for tablets and boli may be chemically modified polymeric natural substances that are soluble in water or in alcohol, such as starch, cellulose or protein derivatives (e.g. methyl cellulose, carboxymethyl cellulose, ethylhydroxyethyl cellulose, proteins such as zein, gelatin and the like), as well as synthetic polymers, such as polyvinyl alcohol, polyvinyl pyrrolidone etc. The tablets also contain fillers (e.g. starch, microcrystalline cellulose, sugar, lactose etc.), glidants and disintegrants.

If the anthelminthics are present in the form of feed concentrates, then the carriers used are e.g. performance feeds, feed grain or protein concentrates. Such feed concentrates or compositions may contain, apart from the active ingredients, also additives, vitamins, antibiotics, chemotherapeutics or other pesticides, primarily bacteriostats, fungistats, coccidiostats, or even hormone preparations, substances having anabolic action or substances which promote growth, which affect the quality of meat of animals for slaughter or which are beneficial to the organism in another way. If the compositions or the active ingredients of formula I contained therein are added directly to feed or to the drinking troughs, then the formulated feed or drink contains the active ingredients preferably in a concentration of ca. 0.0005 to 0.02 % by weight (5-200 ppm).

The compounds of formula I according to the invention may be used alone or in combination with other biocides. They may be combined with pesticides having the same sphere of

activity e.g. to increase activity, or with substances having another sphere of activity e.g. to broaden the range of activity. It can also be sensible to add so-called repellents. If the range of activity is to be extended to endoparasites, e.g. wormers, the compounds of formula I are suitably combined with substances having endoparasitic properties. Of course, they can also be used in combination with antibacterial compositions. Since the compounds of formula I are adulticides, i.e. since they are effective in particular against the adult stages of the target parasites, the addition of pesticides which instead attack the juvenile stages of the parasites may be very advantageous. In this way, the greatest part of those parasites that produce great economic damage will be covered. Moreover, this action will contribute substantially to avoiding the formation of resistance. Many combinations may also lead to synergistic effects, i.e. the total amount of active ingredient can be reduced, which is desirable from an ecological point of view. Preferred groups of combination partners and especially preferred combination partners are named in the following, whereby combinations may contain one or more of these partners in addition to a compound of formula I.

Suitable partners in the mixture may be biocides, e.g. the insecticides and acaricides with a varying mechanism of activity, which are named in the following and have been known to the person skilled in the art for a long time, e.g. chitin synthesis inhibitors, growth regulators; active ingredients which act as juvenile hormones; active ingredients which act as adulticides; broad-band insecticides, broad-band acaricides and nematicides; and also the well known anthelminthics and insect- and/or acarid-deterring substances, said repellents or detachers.

Non-limitative examples of suitable insecticides and acaricides are:

1. Abamectin
2. AC 303 630
3. Acephat
4. Acrinathrin
5. Alanycarb
6. Aldicarb
7. α-Cypermethrin
8. Alphamethrin
9. Amitraz
10. Avermectin B <sub>1</sub>
11. AZ 60541

12. Azinphos A
13. Azinphos M
14. Azocyclotin
15. <i>Bacilius subtil.</i> toxin
16. Bendiocarb
17. Benfuracarb
18. Bensultap
19. β-Cyfluthrin
20. Bifenthrin
21. BPMC
22. Brofenprox

23. Bromophos A
24. Bufencarb
25. Buprofezin
26. Butocarboxim
27. Butylpyridaben
28. Cadusafos
29. Carbaryl
30. Carbofuran
31. Carbophenothion
32. Cartap
33. Cloethocarb

34. Chlorethoxyfos
35. Chlorfenapyr
36. Chiorfluazuron
37. Chlormephos
38. Chlorpyrifos
39. Cis-Resmethrin
40. Clocythrin
41. Clofentezin
42. Cyanophos
43. Cycloprothrin
44. Cyfluthrin
45. Cyhexatin
46. D 2341
47. Deltamethrin
48. Demeton M
49. Demeton S
50. Demeton-S-methyl
51. Dichlofenthion
52. Dicliphos
53. Diethion
54. Diflubenzuron
55. Dimethoat
56. Dimethylvinphos
57. Dioxathion
58. DPX-MP062
59. Edifenphos
60. Emamectin
61. Endosulfan
62. Esfenvalerat
63. Ethiofencarb
64. Ethion
65. Ethofenprox
66. Ethoprophos
<u> </u>

67. Etrimfos
68. Fenamiphos
69. Fenazaquin
70. Fenbutatinoxid
71. Fenitrothion
72. Fenobucarb
73. Fenothiocarb
74. Fenoxycarb
75. Fenpropathrin
76. Fenpyrad
77. Fenpyroximate
78. Fenthion
79. Fenvalerate
80. Fipronil
81. Fluazinam
82. Fluazuron
83. Flucycloxuron
84. Flucythrinat
85. Flufenoxuron
86. Flufenprox
87. Fonofos
88. Formothion
89. Fosthiazat
90. Fubfenprox
91. HCH
92. Heptenophos
93. Hexaflumuron
94. Hexythiazox
95. Hydroprene
96. Imidacloprid
97. insect-active
fungi
98. insect-active

nematodes
99. insect-active viruses
100. Iprobenfos
101. Isofenphos
102. Isoprocarb
103. Isoxathion
104. Ivermectin
105.λ-Cyhalothrin
106. Lufenuron
107. Malathion
108. Mecarbam
109. Mesulfenfos
110. Metaldehyd
111. Methamidophos
112. Methiocarb
113. Methomyl
114. Methoprene
115. Metolcarb
116. Mevinphos
117. Milbemectin
118. Moxidectin
119. Naled
120.NC 184
121. NI-25, Acetamiprid
122. Nitenpyram
123. Omethoat
124. Oxamyl
125. Oxydemeton M
126. Oxydeprofos
127. Parathion
128. Parathion-methyl
129. Permethrin
130. Phenthoat

131. Phorat
132.Phosalone
133. Phosmet
134. Phoxim
135. Pirimicarb
136. Pirimiphos A
137. Pirimiphos M
138.Promecarb
139. Propaphos
140. Propoxur
141. Prothiofos
142. Prothoat
143. Pyrachlofos
144. Pyradaphenthion
145. Pyresmethrin
146. Pyrethrum
147. Pyridaben
148. Pyrimidifen
149. Pyriproxyfen

150.RH 5992
151.RH-2485
152. Salithion
153. Sebufos
154. Silafluofen
155. Spinosad
156. Sulfotep
157. Sulprofos
158. Tebufenozide
159. Tebufenpyrad
160. Tebupirimfos
161. Teflubenzuron
162. Tefluthrin
163.Temephos
164.Terbam
165.Terbufos
166. Tetrachlorvinphos
167. Thiafenox
168. Thiodicarb

169. Thiofanox
170. Thionazin
171. Thuringiensin
172. Tralomethrin
173. Triarathene
174. Triazamate
175.Triazophos
176. Triazuron
177. Trichlorfon
178. Triflumuron
179. Trimethacarb
180. Vamidothion
181.XMC (3,5,-Xylyl-
methylcarbamate)
182. Xylylcarb
183.YI 5301/5302
184. ζ-Cypermethrin
185.Zetamethrin
L

Non-limitative examples of suitable anthelminthics are named in the following, a few representatives have insecticidal and acaricidal activity in addition to the anthelminthic activity, and are partly already in the above list.

- (A1) <u>Praziquantel</u> = 2-cyclohexylcarbonyl-4-oxo-1,2,3,6,7,11b-hexahydro-4H-pyrazino[2,1- $\alpha$ ]isoquinoline
- (A2) <u>Closantel</u> = 3,5-diiodo-N-[5-chloro-2-methyl-4-(a-cyano-4-chlorobenzyl)phenyl]-salicylamide
- (A3) <u>Triclabendazole</u> = 5-chloro-6-(2,3-dichlorophenoxy)-2-methylthio-1H-benzimidazole
- (A4)  $\underline{\text{Levamisol}} = L$ -(-)-2,3,5,6-tetrahydro-6-phenylimidazo[2,1b]thiazole
- (A5) Mebendazole = (5-benzoyl-1H-benzimidazol-2-yl)carbaminic acid methylester
- (A6) Omphalotin = a macrocyclic fermentation product of the fungus Omphalotus olearius described in WO 97/20857
- (A7) Abamectin = avermectin B1

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- (A8) <u>Ivermectin</u> = 22,23-dihydroavermectin B1
- (A9) <u>Moxidectin</u> = 5-O-demethyl-28-deoxy-25-(1,3-dimethyl-1-butenyl)-6,28- epoxy-23-(methoxyimino)-milbemycin B
- (A10) Doramectin = 25-cyclohexyl-5-O-demethyl-25-de(1-methylpropyl)-avermectin A1a
- (A11) Milbemectin = mixture of milbemycin A3 and milbemycin A4
- (A12) Milbemycinoxim = 5-oxime of milbemectin

Non-limitative examples of suitable repellents and detachers are:

- (R1) <u>DEET</u> (N, N-diethyl-m-toluamide)
- (R2) KBR 3023 N-butyl-2-oxycarbonyl-(2-hydroxy)-piperidine
- (R3) Cymiazole = N,-2,3-dihydro-3-methyl-1,3-thiazol-2-ylidene-2,4-xylidene

The said partners in the mixture are best known to specialists in this field. Most are described in various editions of the Pesticide Manual, The British Crop Protection Council, London, and others in the various editions of The Merck Index, Merck & Co., Inc., Rahway, New Jersey, USA or in patent literature. Therefore, the following listing is restricted to a few places where they may be found by way of example.

- (I) 2-Methyl-2-(methylthio)propionaldehyde-*O*-methylcarbamoyloxime (Aldicarb), from The Pesticide Manual, 11<sup>th</sup> Ed. (1997), The British Crop Protection Council, London, page 26;
- (II) S-(3,4-dihydro-4-oxobenzo[d]-[1,2,3]-triazin-3-ylmethyl)O,O-dimethyl-phosphoro-dithioate (Azinphos-methyl), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 67;
- (III) Ethyl-N-[2,3-dihydro-2,2-dimethylbenzofuran-7-yloxycarbonyl-(methyl)aminothio]-N-isopropyl-β-alaninate (Benfuracarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 96;
- (IV) 2-Methylbiphenyl-3-ylmethyl-(*Z*)-(1*RS*)-*cis*-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate (Bifenthrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 118;
- (V) 2-tert-butylimino-3-isopropyl-5-phenyl-1,3,5-thiadiazian-4-one (Buprofezin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 157;
- (VI) 2,3-Dihydro-2,2-dimethylbenzofuran-7-yl-methylcarbamate (Carbofuran), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 186;
- (VII) 2,3-Dihydro-2,2-dimethylbenzofuran-7-yl-(dibutylaminothio)methylcarbamate (Carbosulfan), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 188;

- (VIII) *S,S*-(2-dimethylaminotrimethylene)-bis(thiocarbamate) (Cartap), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 193;
- (IX) 1-[3,5-Dichloro-4-(3-chloro-5-trifluoromethyl-2-pyridyloxy)phenyl]-3-(2,6-difluorobenzoyl)-urea (Chlorfluazuron), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 213;
- (X) O,O-diethyl-O-3,5,6-trichloro-2-pyridyl-phosphorothioate (Chlorpyrifos), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 235;
- (XI) (RS)-α-cyano-4-fluoro-3-phenoxybenzyl-(1RS,3RS;1RS,3RS)-3-(2,2-dichlorovinyl)-2,2-di-methylcyclopropanecarboxylate (Cyfluthrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 293;
- (XII) Mixture of (S)-α-cyano-3-phenoxybenzyl-(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoro-propenyl)-2,2-dimethylcyclopropanecarboxylate and (R)-α-cyano-3-phenoxybenzyl-(Z)-(1R,3R)-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (Lambda-Cyhalothrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 300;
- (XIII) Racemate consisting of (*S*)-α-cyano-3-phenoxybenzyl-(*Z*)-(1*R*,3*R*)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate and (*R*)-α-cyano-3-phenoxybenzyl-(1*S*,3*S*)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (Alpha-cypermethrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 308;
- (XIV) a mixture of the stereoisomers of (*S*)-α-cyano-3-phenoxybenzyl (1*RS*,3*RS*,-1*RS*,3*RS*)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (zeta-Cypermethrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 314;
- (XV) (S)-α-cyano-3-phenoxybenzyl-(1*R*,3*R*)-3-(2,2-dibromovinyl)-2,2-dimethylcyclopropane-carboxylate (Deltamethrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 344;
- (XVI) (4-chlorophenyl)-3-(2,6-difluorobenzoyl)urea (Diflubenzuron), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 395;
- (XVII) (1,4,5,6,7,7-Hexachloro-8,9,10-trinorborn-5-en-2,3-ylenebismethylene)-sulphite (Endosulfan), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 459;
- (XVIII) α-ethylthio-o-tolyl-methylcarbamate (Ethiofencarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 479;

- (XIX) O,O-dimethyl-O-4-nitro-m-tolyl-phosphorothioate (Fenitrothion), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 514;
- (XX) 2-sec-butylphenyl-methylcarbamate (Fenobucarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 516;
- (XXI) (*RS*)-α-cyano-3-phenoxybenzyl-(*RS*)-2-(4-chlorophenyl)-3-methylbutyrate (Fenvalerate), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 539;
- (XXII) S-[formyl(methyl)carbamoylmethyl]-*O,O*-dimethyl-phosphorodithioate (Formothion), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council. London, page 625:
- (XXIII) 4-Methylthio-3,5-xylyl-methylcarbamate (Methiocarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 813;
- (XXIV) 7-Chlorobicyclo[3.2.0]hepta-2,6-dien-6-yl-dimethylphosphate (Heptenophos), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 670;
- (XXV) 1-(6-chloro-3-pyridylmethyl)-*N*-nitroimidazolidin-2-ylidenamine (Imidacloprid), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 706;
- (XXVI) 2-isopropylphenyl-methylcarbamate (Isoprocarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 729;
- (XXVII) *O,S*-dimethyl-phosphoramidothioate (Methamidophos), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 808;
- (XXVIII) S-Methyl-*N*-(methylcarbamoyloxy)thioacetimidate (Methomyl), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 815;
- (XXIX) Methyl-3-(dimethoxyphosphinoyloxy)but-2-enoate (Mevinphos), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 844;
- (XXX) *O,O*-diethyl-*O*-4-nitrophenyl-phosphorothioate (Parathion), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 926;
- (XXXI) *O,O*-dimethyl-*O*-4-nitrophenyl-phosphorothioate (Parathion-methyl), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 928;
- (XXXII) S-6-chloro-2,3-dihydro-2-oxo-1,3-benzoxazol-3-ylmethyl-*O,O*-diethyl-phosphor-dithioate (Phosalone), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 963;

- (XXXIII) 2-Dimethylamino-5,6-dimethylpyrimidin-4-yl-dimethylcarbamate (Pirimicarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 985;
- (XXXIV) 2-isopropoxyphenyl-methylcarbamate (Propoxur), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1036;
- (XXXV) 1-(3,5-dichloro-2,4-difluorophenyl)-3-(2,6-difluorobenzoyl)urea (Teflubenzuron), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1158;
- (XXXVI) S-tert-butylthiomethyl-O,O-dimethyl-phosphorodithioate (Terbufos), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1165;
- (XXXVII) ethyl-(3-*tert.*-butyl-1-dimethylcarbamoyl-1*H*-1,2,4-triazol-5-yl-thio)-acetate, (Triazamate), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1224;
- (XXXVIII) Abamectin, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 3;
- (XXXIX) 2-sec-butylphenyl-methylcarbamate (Fenobucarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 516;
- (XL) *N-tert*.-butyl-*N*-(4-ethylbenzoyl)-3,5-dimethylbenzohydrazide (Tebufenozide), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1147;
- (XLI) (±)-5-amino-1-(2,6-dichloro-α,α,α-trifluoro-p-tolyl)-4-trifluoromethyl-sulphinylpyrazol-3-carbonitrile (Fipronil), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 545;
- (XLII) (*RS*)-α-cyano-4-fluoro-3-phenoxybenzyl(1*RS*,3*RS*;1*RS*,3*RS*)-3-(2,2-dichloro-vinyl)-2,2-dimethylcyclopropanecarboxylate (beta-Cyfluthrin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 295;
- (XLIII) (4-ethoxyphenyl)-[3-(4-fluoro-3-phenoxyphenyl)propyl](dimethyl)silane (Silafluofen), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1105;
- (XLIV) tert.-butyl (E)-α-(1,3-dimethyl-5-phenoxypyrazol-4-yl-methylenamino-oxy)-p-toluate (Fenpyroximate), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 530;

- (XLV) 2-tert.-butyl-5-(4-tert.-butylbenzylthio)-4-chloropyridazin-3(2H)-one (Pyridaben), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1161;
- (XLVI) 4-[[4-(1,1-dimethylphenyl)phenyl]ethoxy]-quinazoline (Fenazaquin), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 507;
- (XLVII) 4-phenoxyphenyl-(*RS*)-2-(pyridyloxy)propyl-ether (Pyriproxyfen), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1073;
- (XLVIII) 5-chloro-*N*-{2-[4-(2-ethoxyethyl)-2,3-dimethylphenoxy]ethyl}-6-ethylpyrimidine-4-amine (Pyrimidifen), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1070;
- (XLIX) (*E*)-*N*-(6-chloro-3-pyridylmethyl)-*N*-ethyl-*N*-methyl-2-nitrovinylidenediamine (Nitenpyram), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 880;
- (L) (E)-N¹-[(6-chloro-3-pyridyl)methyl]-N²-cyano-N¹-methylacetamidine (NI-25, Acetamiprid), from The Pesticide Manual, 11¹hEd. (1997), The British Crop Protection Council, London, page 9;
- (LI) Avermectin B<sub>1</sub>, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 3;
- (LII) an insect-active extract from a plant, especially (2R,6aS,12aS)-1,2,6,6a,12,12a-hexhydro-2-isopropenyl-8,9-dimethoxy-chromeno[3,4-b]furo[2,3-h]chromen-6-one (Rotenone), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1097; and an extract from Azadirachta indica, especially azadirachtin, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 59; and
- (LIII) a preparation which contains insect-active nematodes, preferably *Heterorhabditis* bacteriophora and Heterorhabditis megidis, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 671; *Steinernema feltiae*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1115 and *Steinernema scapterisci*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1116;
- (LIV) a preparation obtainable from *Bacillus subtilis*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 72; or from a strain of *Bacillus thuringiensis* with the exception of compounds isolated from GC91 or from NCTC11821;

The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 73;

- (LV) a preparation which contains insect-active fungi, preferably *Verticillium lecanii*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1266; *Beauveria brogniartii*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 85 and *Beauveria bassiana*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 83;
- (LVI) a preparation which contains insect-active viruses, preferably *Neodipridon Sertifer NPV*, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1342; *Mamestra brassicae* NPV, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 759 and *Cydia pomonella granulosis* virus, from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 291;
- (CLXXXI) 7-chloro-2,3,4*a*,5-tetrahydro-2-[methoxycarbonyl(4-trifluoromethoxyphenyl)-carbamoyl]indol[1,2*e*]oxazoline-4*a*-carboxylate (DPX-MP062, Indoxycarb), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 453;
- (CLXXXII) *N*-tert.-butyl-*N*'-(3,5-dimethylbenzoyl)-3-methoxy-2-methylbenzohydrazide (RH-2485, Methoxyfenozide), from The Pesticide Manual, 11<sup>th</sup>Ed. (1997), The British Crop Protection Council, London, page 1094; and
- (CLXXXIII) (N'-[4-methoxy-biphenyl-3-yl]-hydrazinecarboxylic acid isopropylester (D 2341), from Brighton Crop Protection Conference, 1996, 487- 493;
- (R2) Book of Abstracts, 212th ACS National Meeting Orlando, FL, August 25-29 (1996), AGRO-020. Publisher: American Chemical Society, Washington, D.C. CONEN: 63BFAF.

As a consequence of the above details, a further essential aspect of the present invention relates to combination preparations for the control of parasites on warm-blooded animals, characterised in that they contain, in addition to a compound of formula I, at least one further active ingredient having the same or different sphere of activity and at least one physiologically acceptable carrier. The present invention is not restricted to two-fold combinations.

As a rule, the anthelminthic compositions according to the invention contain 0.1 to 99 % by weight, especially 0.1 to 95 % by weight of active ingredient of formula I, Ia or mixtures thereof, 99.9 to 1 % by weight, especially 99.8 to 5 % by weight of a solid or liquid admixture, including 0 to 25 % by weight, especially 0.1 to 25 % by weight of a surfactant.

Application of the compositions according to the invention to the animals to be treated may take place topically, perorally, parenterally or subcutaneously, the composition being present in the form of solutions, emulsions, suspensions, (drenches), powders, tablets, boli, capsules and pour-on formulations.

The pour-on or spot-on method consists in applying the compound of formula I to a specific location of the skin or coat, advantageously to the neck or backbone of the animal. This takes place e.g. by applying a swab or spray of the pour-on or spot-on formulation to a relatively small area of the coat, from where the active substance is dispersed almost automatically over wide areas of the fur owing to the spreading nature of the components in the formulation and assisted by the animal's movements.

Pour-on or spot-on formulations suitably contain carriers, which promote rapid dispersement over the skin surface or in the coat of the host animal, and are generally regarded as spreading oils. Suitable carriers are e.g. oily solutions; alcoholic and isopropanolic solutions such as solutions of 2-octyldodecanol or oleyl alcohol; solutions in esters of monocarboxylic acids, such as isopropyl myristate, isopropyl palmitate, lauric acid oxalate, oleic acid oleyl ester, oleic acid decyl ester, hexyl laurate, oleyl oleate, decyl oleate, capric acid esters of saturated fat alcohols of chain length C<sub>12</sub>-C<sub>18</sub>; solutions of esters of dicarboxylic acids, such as dibutyl phthalate, diisopropyl isophthalate, adipic acid diisopropyl ester, di-n-butyl adipate or also solutions of esters of aliphatic acids, e.g. glycols. It may be advantageous for a dispersing agent to be additionally present, such as one known from the pharmaceutical or cosmetic industry. Examples are 2-pyrrolidone, 2-(N-alkyl)pyrrolidone, acetone, polyethylene glycol and the ethers and esters thereof, propylene glycol or synthetic triglycerides.

The oily solutions include e.g. vegetable oils such as olive oil, groundnut oil, sesame oil, pine oil, linseed oil or castor oil. The vegetable oils may also be present in epoxidised form. Paraffins and silicone oils may also be used.

A pour-on or spot-on formulation generally contains 1 to 20 % by weight of a compound of formula I, 0.1 to 50 % by weight of dispersing agent and 45 to 98.9 % by weight of solvent.

The pour-on or spot-on method is especially advantageous for use on herd animals such as cattle, horses, sheep or pigs, in which it is difficult or time-consuming to treat all the animals orally or by injection. Because of its simplicity, this method can of course also be used for all other animals, including individual domestic animals or pets, and is greatly favoured by the keepers of the animals, as it can often be carried out without the specialist presence of the veterinarian.

Whereas it is preferred to formulate commercial products as concentrates, the end user will normally use dilute formulations.

Such compositions may also contain further additives, such as stabilisers, anti-foaming agents, viscosity regulators, binding agents or tackifiers, as well as other active ingredients, in order to achieve special effects.

Anthelminthic compositions of this type, which are used by the end user, similarly form a constituent of the present invention.

In each of the processes according to the invention for pest control or in each of the pest control compositions according to the invention, the active ingredients of formula I can be used in all of their steric configurations or in mixtures thereof.

The invention also includes a method of prophylactically protecting warm-blooded animals, especially productive livestock, domestic animals and pets, against parasitic helminths, which is characterised in that the active ingredients of the formula or the active ingredient formulations prepared therefrom are administered to the animals as an additive to the feed, or to the drinks or also in solid or liquid form, orally or by injection or parenterally. The invention also includes the compounds of formula I according to the invention for usage in one of the said processes.

The following examples serve merely to illustrate the invention without restricting it, the term active ingredient representing a substance listed in tables...

In particular, preferred formulations are made up as follows:

(% = percent by weight)

#### Formulation examples

1. Granulate	a)	b)
active ingredient	5 %	10 %
kaolin	94 %	-
highly dispersed silicic acid	1 %	-
attapulgite	-	90 %

The active ingredient is dissolved in methylene chloride, sprayed onto the carrier and the solvent subsequently concentrated by evaporation under vacuum. Granulates of this kind can be mixed with the animal feed.

#### 2. Granulate

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active ingredient 3 % polyethylene glycol (mw 200) 3 % kaolin 94 %

(mw = molecular weight)

The finely ground active ingredient is evenly applied in a mixer to the kaolin which has been moistened with polyethylene glycol. In this way, dust-free coated granules are obtained.

# 3. Tablets or boli

ŀ	active ingredient	33.00 %
	methylcellulose	0.80 %
	silicic acid, highly dispersed	0.80 %
	corn starch	8.40 %
11	lactose, cryst.	22.50 %
	corn starch	17.00 %
	microcryst. cellulose	16.50 %
	magnesium stearate	1.00 %

- Methyl cellulose is stirred into water. After the material has swollen, silicic acid is stirred in and the mixture homogeneously suspended. The active ingredient and the corn starch are mixed. The aqueous suspension is worked into this mixture and kneaded to a dough. The resulting mass is granulated through a 12 M sieve and dried.
- II All 4 excipients are mixed thoroughly.
- III The preliminary mixes obtained according to I and II are mixed and pressed into tablets or boli.

# 4. Injectables

# A. Oily vehicle (slow release)

1.	active ingredient	0.1-1.0 g
	groundnut oil	ad 100 ml
2.	active ingredient	0.1-1.0 g
	sesame oil	ad 100 ml

Preparation: The active ingredient is dissolved in part of the oil whilst stirring and, if required, with gentle heating, then after cooling made up to the desired volume and sterile-filtered through a suitable membrane filter with a pore size of  $0.22 \, \mu m$ .

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# B. Water-miscible solvent (average rate of release)

active ingredient 0.1-1.0 g
4-hydroxymethyl-1,3-dioxolane (glycerol formal) 40 g
1,2-propanediol ad 100 ml
active ingredient 0.1-1.0 g
glycerol dimethyl ketal 40 g
1,2-propanediol ad 100 ml

Preparation: The active ingredient is dissolved in part of the solvent whilst stirring, made up to the desired volume and sterile-filtered through a suitable membrane filter with a pore size of  $0.22 \, \mu m$ .

# C. Aqueous solubilisate (rapid release)

1.	active ingredient	0.1-1.0 g
	polyethoxylated castor oil (40 ethylene oxide units)	10 g
	1,2-propanediol	20 g
	benzyl alcohol	1 g
	aqua ad inject.	ad 100 ml
2.	active ingredient	0.1-1.0 g
2.	active ingredient polyethoxylated sorbitan monooleate (20 ethylene oxide units)	0.1-1.0 g 8 g
2.	•	•
2.	polyethoxylated sorbitan monooleate (20 ethylene oxide units)	8 g

Preparation: The active ingredient is dissolved in the solvents and the surfactant, and made up with water to the desired volume. Sterile filtration through an appropriate membrane filter of  $0.22 \, \mu m$  pore size.

# 5. Pour on

A.

active ingredient	5 g
isopropyl myristate	10 g
isopropanol	ad 100 ml

В

active ingredient 2 g
hexyl laurate 5 g

medium-chained triglyceride	15 g
ethanol	ad 100 ml
C.	
active ingredient	2 g
oleyl oleate	5 g
N-methyl-pyrrolidone	40 g
isopropanol	ad 100 ml

The aqueous systems may also preferably be used for oral and/or intraruminal application.

The compositions may also contain further additives, such as stabilisers, e.g. where appropriate epoxidised vegetable oils (epoxidised coconut oil, rapeseed oil, or soybean oil); antifoams, e.g. silicone oil, preservatives, viscosity regulators, binders, tackifiers, as well as fertilisers or other active ingredients to achieve special effects.

Further biologically active substances or additives, which are neutral towards the compounds of formula I and do not have a harmful effect on the host animal to be treated, as well as mineral salts or vitamins, may also be added to the described compositions.

The following examples serve to illustrate the invention. They do not limit the invention. The letter 'h' stands for hour.

### Preparation examples

### Example 1: N-[1-cyano-1-methyl-2-(5-nitroindazol-1-yl)-ethyl]-4-trifluoromethoxybenzamide

- a) 5 g of 5-nitroindazole, 3.97 g of chloroacetone, 1.84 g of potassium carbonate and 0.46 g of potassium iodide are dissolved in 30 ml of acetone and boiled under reflux over night.

  After cooling, the precipitate is filtered, concentrated by evaporation and the residue purified by flash chromatography. 1-(5-nitroindazol-1-yl)-propan-2-one is thus obtained.
- b) 3.5 g of 1-(5-nitroindazol-1-yl)-propan-2-one, 0.94 g of sodium cyanide and 1.28 g of ammonium chloride are suspended in 50 ml of aqueous 25% ammonia solution and stirred at room temperature for 90 h. The crude product is subsequently extracted from the reaction mixture with ethyl acetate, the organic phase is washed with saturated sodium chloride

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solution, dried with magnesium sulphate and concentrated by evaporation. 2-amino-2-methyl-3-(5-nitroindazol-1-yl)-propionitrile is thus obtained.

c) A mixture of 369 mg of ethyl diisopropylamine, 30 mg of 4-dimethylaminopyridine and 549 mg of 4-(trifluoromethoxy)-benzoyl chloride is added dropwise to a solution of 500 mg of 2-amino-2-methyl-3-(5-nitroindazol-1-yl)-propionitrile in 8 ml of methylene chloride, and subsequently stirred for 18 h at room temperature. Subsequently, the reaction mixture is diluted with ethyl acetate, then washed with a saturated sodium bicarbonate solution, water, aqueous 2N hydrochloric acid and finally with saturated sodium chloride solution. After drying the organic phase with magnesium sulphate and concentrating by evaporation, the residue is recrystallised in diethylether. In this way, the title compound is obtained as a slightly yellowish solid with a melting point of 203-5°C.

The substances named in the following table may also be prepared analogously to the above-described method. The values of the melting points are indicated in °C. Bd. signifies a direct bond.

Table 1

No.	Y <sub>1</sub>	R <sub>1</sub>	R <sub>2</sub>	R <sub>71</sub>	phys. data
1.1	Bd.	Н	H	H	
1.2	Bd.	Н	Н	2-Cl	
1.3	Bd.	Н	Н	3-CI	
1.4	Bd.	Н	Н	4-CI	
1.5	Bd.	Н	Н	2-F	
1.6	Bd.	Н	Н	3-F	
1.7	Bd.	Н	Н	4-F	
1.8	Bd.	Н	Н	2-CH <sub>3</sub>	
1.9	Bd.	Н	Н	3-CH₃	
1.10	Bd.	Н	Н	4-CH₃	
1.11	Bd.	Н	Н	2-OCH <sub>3</sub>	
1.12	Bd.	Н	Н	3-OCH₃	
1.13	Bd.	Н	Н	4-OCH₃	
1.14	Bd.	Н	Н	2-CF <sub>3</sub>	•
1.15	Bd.	Н	Н	3-CF <sub>3</sub>	
1.16	Bd.	Н	Н	4-CF <sub>3</sub>	
1.17	Bd.	Н	Н	2-OCF <sub>3</sub>	
1.18	Bd.	Н	Н	3-OCF <sub>3</sub>	,
1.19	Bd.	Н	Н	4-OCF <sub>3</sub>	
1.20	Bd.	Н	Н	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.21	Bd.	Н	H	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.22	Bd.	Н	Н	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.23	Bd.	Н	Н	2-OC <sub>2</sub> F <sub>5</sub>	
1.24	Bd.	Н	Н	3-OC₂F <sub>5</sub>	
1.25	Bd.	Н	Н	4-OC <sub>2</sub> F <sub>5</sub>	
1.26	Bd.	Н	Н	2-OC <sub>6</sub> H <sub>5</sub>	
1.27	Bd.	Н	Н	3-OC <sub>6</sub> H <sub>5</sub>	
1.28	Bd.	Н	Н	4-OC <sub>6</sub> H <sub>5</sub>	
1.29	Bd.	Н	Н	$2-C(O)C_6H_5$	
1.30	Bd.	Н	Н	$3-C(O)C_6H_5$	
1.31	Bd.	Н	Н	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.32	Bd.	Н	Н	4-CN	
1.33	Bd.	Н	CH₃	Н	
1.34	Bd.	Н	CH₃	2-Cl	
1.35	Bd.	Н	CH₃	3-CI	
1.36	Bd.	Н	CH₃	4-CI	
1.37	Bd.	H	CH₃	2-F	
1.38	Bd.	Н	CH₃	3-F	

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1.39	Bd.	Н	CH₃	4-F	
1.40	Bd.	Н	CH₃	2-CH <sub>3</sub>	
1.41	Bd.	Н	CH₃	3-CH₃	
1.42	Bd.	Н	СН₃	4-CH₃	
1.43	Bd.	Н	CH₃	2-OCH <sub>3</sub>	
1.44	Bd.	Н	CH₃	3-OCH₃	
1.45	Bd.	Н	СН₃	4-OCH₃	
1.46	Bd.	Н	СН₃	2-CF <sub>3</sub>	
1.47	Bd.	Н	CH₃	3-CF₃	
1.48	Bd.	Н	СН₃	4-CF <sub>3</sub>	
1.49	Bd.	Н	CH₃	2-OCF <sub>3</sub>	
1.50	Bd.	Н	CH₃	3-OCF <sub>3</sub>	
1.51	Bd.	Н	CH₃	4-OCF <sub>3</sub>	
1.52	Bd.	Н	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.53	Bd.	Н	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.54	Bd.	Н	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.55	Bd.	Н	CH₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.56	Bd.	Н	CH₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.57	Bd.	Н	CH₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.58	Bd.	Н	CH₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.59	Bd.	Н	CH₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.60	Bd.	Н	CH₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.61	Bd.	Н	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.62	Bd.	Н	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.63	Bd.	Н	CH₃	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.64	Bd.	Н	CH₃	4-CN	
1.65	Bd.	H	CF₃	Н	
1.66	Bd.	H	CF₃	2-Cl	
1.67	Bd.	H	CF₃	3-CI	
1.68	Bd.	H	CF₃	4-CI	
1.69	Bd.	Н	CF₃	2-F	
1.70	Bd.	Н	CF₃	3-F	
1.71	Bd.	H	CF₃	4-F	
1.72	Bd.	Н	CF₃	2-CH₃	
1.73	Bd.	H	CF₃	3-CH₃	
1.74	Bd.	Н	CF₃	4-CH₃	
1.75	Bd.	Н	CF₃	2-OCH₃	
1.76	Bd.	Н	CF₃	3-OCH₃	
1.77	Bd.	Н	CF₃	4-OCH₃	
1.78	Bd.	Н	CF₃	2-CF <sub>3</sub>	
1.79	Bd.	Н	CF₃	3-CF <sub>3</sub>	
1.80	Bd.	Н	CF₃	4-CF <sub>3</sub>	
1.81	Bd.	Н	CF₃	2-OCF <sub>3</sub>	
1.82	Bd.	Н	CF₃	3-OCF <sub>3</sub>	
1.83	Bd.	Н	CF₃	4-OCF <sub>3</sub>	
1.84	Bd.	Н	CF₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.85	Bd.	Н	CF₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.86 1.87	Bd. Bd.	Н	CF₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.88	Bd.	H H	CF₃ CF₃	2-OC <sub>2</sub> F <sub>5</sub> 3-OC <sub>2</sub> F <sub>5</sub>	
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1.89 Bd. H CF <sub>3</sub> 4-OC <sub>2</sub> F <sub>5</sub> 1.90 Bd. H CF <sub>3</sub> 2-OC <sub>6</sub> H <sub>5</sub> 1.91 Bd. H CF <sub>3</sub> 3-OC <sub>6</sub> H <sub>5</sub> 1.92 Bd. H CF <sub>3</sub> 3-OC <sub>6</sub> H <sub>5</sub> 1.93 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.94 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.95 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.96 Bd. H CF <sub>3</sub> 4-CN 1.97 Bd. 4-OCH <sub>3</sub> H H 1.98 Bd. 4-OCH <sub>3</sub> H 3-CI 1.100 Bd. 4-OCH <sub>3</sub> H 3-CI 1.101 Bd. 4-OCH <sub>3</sub> H 4-CI 1.101 Bd. 4-OCH <sub>3</sub> H 3-F 1.102 Bd. 4-OCH <sub>3</sub> H 4-F 1.103 Bd. 4-OCH <sub>3</sub> H 4-F 1.104 Bd. 4-OCH <sub>3</sub> H 2-CH <sub>3</sub> 1.105 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.106 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.107 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.1108 Bd. 4-OCH <sub>3</sub> H 2-CH <sub>3</sub> 1.1109 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.1101 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.1101 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.1102 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.1103 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.1104 Bd. 4-OCH <sub>3</sub> H 2-OCH <sub>3</sub> 1.1105 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1107 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.1111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.123 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> H <sub>5</sub> 1.130 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub>						
1.90 Bd. H CF <sub>3</sub> 2-OC <sub>6</sub> H <sub>5</sub> 1.91 Bd. H CF <sub>3</sub> 3-OC <sub>6</sub> H <sub>6</sub> 1.92 Bd. H CF <sub>3</sub> 3-OC <sub>6</sub> H <sub>6</sub> 1.93 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.94 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.95 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.96 Bd. H CF <sub>3</sub> 4-CN 1.97 Bd. 4-OCH <sub>3</sub> H H 1.98 Bd. 4-OCH <sub>3</sub> H 2-CI 1.99 Bd. 4-OCH <sub>3</sub> H 3-CI 1.100 Bd. 4-OCH <sub>3</sub> H 2-F 1.101 Bd. 4-OCH <sub>3</sub> H 3-F 1.102 Bd. 4-OCH <sub>3</sub> H 3-F 1.103 Bd. 4-OCH <sub>3</sub> H 3-F 1.104 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.105 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.106 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.107 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.108 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.109 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1109 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1109 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1109 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1110 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.1111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.120 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.121 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.123 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.120 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.121 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.123 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>3</sub> F <sub>5</sub> 1.128 Bd. 4-OCH		1.89	Bd.	Н	CF <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>
1.91 Bd. H CF <sub>3</sub> 3-OC <sub>6</sub> H <sub>6</sub> 1.92 Bd. H CF <sub>3</sub> 4-OC <sub>6</sub> H <sub>6</sub> 1.93 Bd. H CF <sub>3</sub> 2-C(O)C <sub>6</sub> H <sub>5</sub> 1.94 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.95 Bd. H CF <sub>3</sub> 4-C(O)C <sub>6</sub> H <sub>5</sub> 1.96 Bd. H CF <sub>3</sub> 4-C(O)C <sub>6</sub> H <sub>5</sub> 1.97 Bd. 4-OCH <sub>3</sub> H H 1.98 Bd. 4-OCH <sub>3</sub> H 2-CI 1.99 Bd. 4-OCH <sub>3</sub> H 3-CI 1.100 Bd. 4-OCH <sub>3</sub> H 4-CI 1.101 Bd. 4-OCH <sub>3</sub> H 3-F 1.102 Bd. 4-OCH <sub>3</sub> H 3-F 1.103 Bd. 4-OCH <sub>3</sub> H 4-F 1.104 Bd. 4-OCH <sub>3</sub> H 2-CH <sub>3</sub> 1.105 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.106 Bd. 4-OCH <sub>3</sub> H 2-OCH <sub>3</sub> 1.107 Bd. 4-OCH <sub>3</sub> H 2-OCH <sub>3</sub> 1.108 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 2-OCH <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>2</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>2</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>2</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>2</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>2</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.130 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.131 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.132 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>		1.90	Bd.	Н	CF <sub>3</sub>	2-OC <sub>6</sub> H <sub>5</sub>
1.92 Bd. H CF <sub>3</sub> 4-OC <sub>6</sub> H <sub>5</sub> 1.93 Bd. H CF <sub>3</sub> 2-C(O)C <sub>6</sub> H <sub>5</sub> 1.94 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.95 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.96 Bd. H CF <sub>3</sub> 4-C(O)C <sub>6</sub> H <sub>5</sub> 1.97 Bd. 4-OCH <sub>3</sub> H H 1.98 Bd. 4-OCH <sub>3</sub> H 2-CI 1.99 Bd. 4-OCH <sub>3</sub> H 3-CI 1.100 Bd. 4-OCH <sub>3</sub> H 4-CI 1.101 Bd. 4-OCH <sub>3</sub> H 2-F 1.102 Bd. 4-OCH <sub>3</sub> H 3-F 1.103 Bd. 4-OCH <sub>3</sub> H 3-F 1.104 Bd. 4-OCH <sub>3</sub> H 2-CH <sub>3</sub> 1.105 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.106 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.107 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.108 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.109 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCH <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.120 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.121 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.123 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>9</sub> F <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.130 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.131 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.132 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>9</sub> F <sub>5</sub> 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>		1.91	Bd.	Н	CF <sub>3</sub>	3-OC <sub>6</sub> H <sub>5</sub>
1.93 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.94 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.95 Bd. H CF <sub>3</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub> 1.96 Bd. H CF <sub>3</sub> 4-C(O)C <sub>6</sub> H <sub>5</sub> 1.97 Bd. 4-OCH <sub>3</sub> H COH <sub>3</sub> 1.98 Bd. 4-OCH <sub>3</sub> H 2-CI 1.99 Bd. 4-OCH <sub>3</sub> H 3-CI 1.100 Bd. 4-OCH <sub>3</sub> H 4-CI 1.101 Bd. 4-OCH <sub>3</sub> H 3-F 1.102 Bd. 4-OCH <sub>3</sub> H 3-F 1.103 Bd. 4-OCH <sub>3</sub> H 3-F 1.104 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.105 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.106 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.107 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.108 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.109 Bd. 4-OCH <sub>3</sub> H 4-CH <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-CH <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-CCH <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-CF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-CF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-CF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 4-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.111 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.113 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.114 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.115 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.116 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.117 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.118 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.119 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.110 Bd. 4-OCH <sub>3</sub> H 3-OCF <sub>3</sub> 1.112 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>3</sub> F <sub>5</sub> 1.121 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.122 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.123 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.124 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.125 Bd. 4-OCH <sub>3</sub> H 3-OC <sub>6</sub> H <sub>5</sub> 1.126 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.127 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.129 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.128 Bd. 4-OCH <sub>3</sub> H 4-OC <sub>6</sub> H <sub>5</sub> 1.139 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CI 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>			Bd.	H	CF <sub>3</sub>	4-OC <sub>6</sub> H <sub>5</sub>
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1.128 Bd. 4-OCH <sub>3</sub> H 4-CN 1.129 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> H 1.130 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-Cl 1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-Cl 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-Cl 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>						
1.129 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> H 1.130 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-Cl 1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-Cl 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-Cl 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>						
1.130 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-Cl 1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-Cl 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-Cl 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>				_		
1.131 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-Cl 1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-Cl 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>						
1.132 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-Cl 1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>				-		
1.133 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-F 1.134 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-F 1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>					_	
1.134Bd. $4\text{-OCH}_3$ $CH_3$ $3\text{-F}$ 1.135Bd. $4\text{-OCH}_3$ $CH_3$ $4\text{-F}$ 1.136Bd. $4\text{-OCH}_3$ $CH_3$ $2\text{-CH}_3$ 1.137Bd. $4\text{-OCH}_3$ $CH_3$ $3\text{-CH}_3$				-	_	
1.135 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-F 1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>					_	
1.136 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 2-CH <sub>3</sub> 1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>					-	
1.137 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 3-CH <sub>3</sub>					-	
				_		
1.138 Bd. 4-OCH <sub>3</sub> CH <sub>3</sub> 4-CH <sub>3</sub>					_	
	*	1.138	Bd.	4-OCH <sub>3</sub>	CH₃	4-CH <sub>3</sub>

1.139	Bd.	4-OCH₃	CH₃	2-OCH <sub>3</sub>
1.140	Bd.	4-OCH₃	CH <sub>3</sub>	3-OCH <sub>3</sub>
1.141	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OCH <sub>3</sub>
1.142	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-CF <sub>3</sub>
1.143	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-CF <sub>3</sub>
1.144	Bd.	4-OCH₃	CH <sub>3</sub>	4-CF <sub>3</sub>
1.145	Bd.	4-OCH <sub>3</sub>	CH₃	2-OCF <sub>3</sub>
1.146	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-OCF <sub>3</sub>
1.147	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OCF <sub>3</sub>
1.148	Bd.	4-OCH <sub>3</sub>	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>
1.149	Bd.	4-OCH <sub>3</sub>	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>
1.150	Bd.	4-OCH <sub>3</sub>	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>
1.151	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>
1.152	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-OC <sub>2</sub> F <sub>5</sub>
1.153	Bd.	4-OCH <sub>3</sub>	CH₃	4-OC₂F₅
1.154	Bd.	4-OCH <sub>3</sub>	CH₃	2-OC <sub>6</sub> H <sub>5</sub>
1.155	Bd.	4-OCH <sub>3</sub>	CH₃	3-OC <sub>6</sub> H <sub>5</sub>
1.156	Bd.	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OC <sub>6</sub> H <sub>5</sub>
1.157	Bd.	4-OCH₃	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>
1.158	Bd.	4-OCH₃	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>
1.159	Bd.	4-OCH₃	CH₃	4-C(O)C <sub>6</sub> H <sub>5</sub>
1.160	Bd.	4-OCH₃	CH₃	4-CN
1.161	Bd.	4-OCH₃	CF <sub>3</sub>	H
1.162	Bd.	4-OCH₃	CF <sub>3</sub>	 2-Cl
1.163	Bd.	4-OCH₃	CF <sub>3</sub>	3-CI
1.164	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-CI
1.165	Bd.	4-OCH₃	CF₃	2-F
1.166	Bd.	4-OCH₃	CF₃	3-F
1.167	Bd.	4-OCH₃	CF₃	4-F
1.168	Bd.	4-OCH₃	CF₃	 2-CH₃
1.169	Bd.	4-OCH₃	CF₃	3-CH <sub>3</sub>
1.170	Bd.	4-OCH₃	CF₃	4-CH <sub>3</sub>
1.171	Bd.	4-OCH₃	CF₃	2-OCH₃
1.172	Bd.	4-OCH₃	CF₃	3-OCH <sub>3</sub>
1.173	Bd.	4-OCH₃	CF₃	4-OCH <sub>3</sub>
1.174	Bd.	4-OCH <sub>3</sub>	CF₃	2-CF <sub>3</sub>
1.175	Bd.	4-OCH₃	CF <sub>3</sub>	3-CF <sub>3</sub>
1.176	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-CF <sub>3</sub>
1.177	Bd.	4-OCH₃	CF <sub>3</sub>	2-OCF <sub>3</sub>
1.178	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	3-OCF <sub>3</sub>
1.179	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OCF <sub>3</sub>
1.180	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	2-OCF <sub>2</sub> CF <sub>2</sub>
1.181	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	3-OCF <sub>2</sub> CF <sub>2</sub>
1.182	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>
1.183	Bd.	4-OCH₃	CF <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>
1.184	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	3-OC <sub>2</sub> F <sub>5</sub>
1.185	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>
1.186	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-0C <sub>2</sub> F <sub>5</sub> 2-0C <sub>6</sub> H <sub>5</sub>
1.187	Bd.	4-OCH <sub>3</sub>	CF <sub>3</sub>	
1.188		4-00H <sub>3</sub>	_	3-OC <sub>6</sub> H <sub>5</sub>
1.100	Bd.	4-00113	CF₃	4-OC <sub>6</sub> H <sub>5</sub>

1.239	Bd.	5-Cl	CH₃	3-CF <sub>3</sub>	
1.240	Bd.	5-Cl	CH₃	4-CF <sub>3</sub>	
1.241	Bd.	5-Cl	CH₃	2-OCF <sub>3</sub>	
1.242	Bd.	5-CI	CH₃	3-OCF <sub>3</sub>	
1.243	Bd.	5-Cl	CH₃	4-OCF <sub>3</sub>	
1.244	Bd.	5-Cl	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.245	Bd.	5-Cl	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.246	Bd.	5-Cl	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.247	Bd.	5-Cl	CH₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.248	Bd.	5-Cl	CH₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.249	Bd.	5-Cl	CH <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>	
	Bd.	5-Cl	CH <sub>3</sub>	2-OC <sub>6</sub> H <sub>5</sub>	
1.250	Bd.	5-Cl	CH <sub>3</sub>	3-OC <sub>6</sub> H <sub>5</sub>	
1.251		5-Cl	CH₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.252	Bd.		CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.253	Bd.	5-Cl	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.254	Bd.	5-Cl	CH <sub>3</sub> .	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.255	Bd.	5-CI	-	4-CN	
1.256	Bd.	5-Cl	CH₃ CF₃	H	
1.257	Bd.	5-Cl	-	2-Cl	
1.258	Bd.	5-Cl	CF₃	3-Cl	
1.259	Bd.	5-Cl	CF₃	4-Ci	
1.260	Bd.	5-Cl	CF₃		
1.261	Bd.	5-Cl	CF₃	2-F	
1.262	Bd.	5-Cl	CF₃	3-F	
1.263	Bd.	5-Cl	CF₃	4-F	
1.264	Bd.	5-Cl	CF₃	2-CH₃ 3-CH₃	
1.265	Bd.	5-Cl	CF₃	4-CH <sub>3</sub>	
1.266	Bd.	5-Cl	CF₃	4-0H₃ 2-0CH₃	
1.267	Bd.	5-Cl	CF₃		
1.268	Bd.	5-Cl	CF₃	3-OCH <sub>3</sub>	
1.269	Bd.	5-Cl	CF₃	4-OCH₃	
1.270	Bd.	5-Cl	CF₃	2-CF <sub>3</sub>	
1.271	Bd.	5-CI	CF₃	3-CF <sub>3</sub>	
1.272	Bd.	5-Cl	CF₃	4-CF <sub>3</sub>	
1.273	Bd.	5-Cl	CF₃	2-OCF <sub>3</sub>	
1.274	Bd.	5-Cl	CF₃	3-OCF₃	
1.275	Bd.	5-Cl	CF₃	4-OCF <sub>3</sub> 2-OCF <sub>2</sub> CF <sub>2</sub>	
1.276	Bd.	5-CI	CF₃		
1.277	Bd.	5-Cl	CF₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.278	Bd.	5-Cl	CF₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.279	Bd.	5-Cl	CF₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.280	Bd.	5-Cl	CF₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.281	Bd.	5-Cl	CF₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.282	Bd.	5-Cl	CF₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.283	Bd.	5-Cl	CF₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.284	Bd.	5-Cl	CF₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.285	Bd.	5-Cl	CF₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.286	Bd.	5-Cl	CF <sub>3</sub>	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.287	Bd.	5-Cl	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.288	Bd.	5-CI	CF <sub>3</sub>	4-CN	

1.289	Bd.	5-NO <sub>2</sub>	Н	Н	
1.290	Bd.	5-NO <sub>2</sub>	Н	2-Cl	
1.291	Bd.	5-NO <sub>2</sub>	Н	3-Cl	
1.292	Bd.	5-NO <sub>2</sub>	Н	4-Cl	
1.293	Bd.	5-NO <sub>2</sub>	Н	2-F	
1.294	Bd.	5-NO <sub>2</sub>	Н	3-F	
1.295	Bd.	5-NO <sub>2</sub>	H	4-F	
1.296	Bd.	5-NO <sub>2</sub>	Н	2-CH <sub>3</sub>	
1.297	Bd.	$5-NO_2$	Н	3-CH₃	
1.298	Bd.	5-NO <sub>2</sub>	Н	4-CH <sub>3</sub>	
1.299	Bd.	5-NO <sub>2</sub>	Н	2-OCH <sub>3</sub>	
1.300	Bd.	5-NO <sub>2</sub>	Н	3-OCH <sub>3</sub>	
1.301	Bd.	5-NO <sub>2</sub>	Н	4-OCH <sub>3</sub>	
1.302	Bd.	5-NO <sub>2</sub>	Н	2-CF <sub>3</sub>	
1.303	Bd.	5-NO <sub>2</sub>	Н	3-CF₃	
1.304	Bd.	5-NO <sub>2</sub>	Н	4-CF <sub>3</sub>	m.p. 195°
1.305	Bd.	5-NO <sub>2</sub>	Н	2-OCF <sub>3</sub>	
1.306	Bd.	5-NO <sub>2</sub>	Н	3-OCF <sub>3</sub>	
1.307	Bd.	5-NO <sub>2</sub>	H	4-OCF <sub>3</sub>	m.p. 203-5°
1.308	Bd.	5-NO <sub>2</sub>	Н	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.309	Bd.	5-NO <sub>2</sub>	Н	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.310	Bd.	5-NO <sub>2</sub>	Н	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.311	Bd.	5-NO <sub>2</sub>	Н	2-OC <sub>2</sub> F <sub>5</sub>	
1.312	Bd.	5-NO <sub>2</sub>	Н	3-OC <sub>2</sub> F <sub>5</sub>	
1.313	Bd.	5-NO <sub>2</sub>	H	4-OC <sub>2</sub> F <sub>5</sub>	
1.314	Bd.	5-NO <sub>2</sub>	Н	2-OC <sub>6</sub> H <sub>5</sub>	
1.315	Bd.	5-NO <sub>2</sub>	Н	3-OC <sub>6</sub> H₅	
1.316	Bd.	5-NO <sub>2</sub>	Н	4-OC <sub>6</sub> H <sub>5</sub>	m.p. 189 °
1.317	Bd.	5-NO₂	Н	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.318	Bd.	5-NO <sub>2</sub>	Н	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.319	Bd.	5-NO <sub>2</sub>	Н	4-C(O)C <sub>6</sub> H <sub>5</sub>	m.p. 154°
1.320	Bd.	5-NO <sub>2</sub>	Н	4-CN	m.p. 260°
1.321	Bd.	5-NO <sub>2</sub>	CH₃	Н	
1.322	Bd.	5-NO <sub>2</sub>	CH₃	2-Cl	
1.323	Bd.	5-NO <sub>2</sub>	CH₃	3-Cl	
1.324	Bd.	5-NO <sub>2</sub>	CH₃	4-Cl	
1.325	Bd.	5-NO <sub>2</sub>	CH₃	2-F	
1.326	Bd.	5-NO <sub>2</sub>	CH₃	3-F	
1.327	Bd.	5-NO₂	CH₃	4-F	
1.328	Bd.	5-NO <sub>2</sub>	CH₃	2-CH₃	
1.329	Bd.	5-NO <sub>2</sub>	CH₃	3-CH₃	
1.330	Bd.	5-NO <sub>2</sub>	CH₃	4-CH₃	
1.331	Bd.	5-NO <sub>2</sub>	CH₃	2-OCH₃	
1.332	Bd.	5-NO <sub>2</sub>	CH₃	3-OCH₃	
1.333	Bd.	5-NO <sub>2</sub>	CH₃	4-OCH₃	
1.334	Bd.	5-NO <sub>2</sub>	CH₃	2-CF₃	
1.335	Bd.	5-NO <sub>2</sub>	CH₃	3-CF₃	
1.336	Bd.	5-NO <sub>2</sub>	CH₃	4-CF <sub>3</sub>	
1.337	Bd.	5-NO <sub>2</sub>	CH₃	2-OCF₃	
1.338	Bd.	5-NO <sub>2</sub>	CH₃	3-OCF₃	

1.339	Bd.	5-NO <sub>2</sub>	CH <sub>3</sub>	4-OCF <sub>3</sub>	
1.340	Bd.	5-NO <sub>2</sub>	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.341	Bd.	5-NO <sub>2</sub>	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.342	Bd.	5-NO <sub>2</sub>	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.343	Bd.	5-NO <sub>2</sub>	CH₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.344	Bd.	5-NO <sub>2</sub>	CH₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.345	Bd.	5-NO <sub>2</sub>	CH₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.346	Bd.	5-NO <sub>2</sub>	CH₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.347	Bd.'	5-NO <sub>2</sub>	CH₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.348	Bd.	5-NO <sub>2</sub>	CH₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.349	Bd.	5-NO <sub>2</sub>	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
	Bd.	5-NO <sub>2</sub>	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.350	Bd.	5-NO <sub>2</sub>	CH₃	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.351		5-NO <sub>2</sub> 5-NO <sub>2</sub>	CH <sub>3</sub>	4-CN	
1.352	Bd.			H	
1.353	Bd.	5-NO <sub>2</sub>	CF₃	2-Cl	
1.354	Bd.	5-NO <sub>2</sub>	CF₃	2-Cl 3-Cl	
1.355	Bd.	5-NO <sub>2</sub>	CF₃	3-Cl 4-Cl	
1.356	Bd.	5-NO <sub>2</sub>	CF₃		
1.357	Bd.	5-NO <sub>2</sub>	CF₃	2-F	
1.358	Bd.	5-NO <sub>2</sub>	CF₃	3-F	
1.359	Bd.	5-NO <sub>2</sub>	CF₃	4-F	
1.360	Bd.	5-NO <sub>2</sub>	CF₃	2-CH₃	
1.361	Bd.	5-NO <sub>2</sub>	CF₃	3-CH₃	
1.362	Bd.	5-NO₂	CF₃	4-CH₃	
1.363	Bd.	5-NO <sub>2</sub>	CF₃	2-OCH₃	
1.364	Bd.	5-NO <sub>2</sub>	CF₃	3-OCH₃	
1.365	Bd.	5-NO <sub>2</sub>	CF₃	4-OCH₃	
1.366	Bd.	5-NO <sub>2</sub>	CF₃	2-CF₃	
1.367	Bd.	5-NO₂	CF₃	3-CF₃	
1.368	Bd.	5-NO <sub>2</sub>	CF₃	4-CF <sub>3</sub>	
1.369	Bd.	5-NO <sub>2</sub>	CF₃	2-OCF₃	
1.370	Bd.	5-NO <sub>2</sub>	CF₃	3-OCF <sub>3</sub>	
1.371	Bd.	5-NO <sub>2</sub>	CF₃	4-OCF <sub>3</sub>	
1.372	Bd.	5-NO <sub>2</sub>	CF₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.373	Bd.	5-NO <sub>2</sub>	CF₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.374	Bd.	5-NO₂	CF <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.375	Bd.	5-NO <sub>2</sub>	CF₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.376	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	3-OC <sub>2</sub> F <sub>5</sub>	
1.377	Bd.	5-NO <sub>2</sub>	CF₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.378	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	2-OC <sub>6</sub> H <sub>5</sub>	
1.379	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	3-OC <sub>6</sub> H <sub>5</sub>	
1.380	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	4-OC <sub>6</sub> H <sub>5</sub>	
1.381	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	$2-C(O)C_6H_5$	
1.382	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.383	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.384	Bd.	5-NO <sub>2</sub>	CF <sub>3</sub>	4-CN	
1.385	CH <sub>2</sub> O	Н	Н	Н	
1.386	CH <sub>2</sub> O	Н	Н	2-CI	
1.387	CH <sub>2</sub> O	Н	Н	3-CI	
1.388	CH <sub>2</sub> O	Н	Н	4-CI	

1.389	CH <sub>2</sub> O	Н	H 2-F
1.390	CH₂O	Н	H 3-F
1.391	CH <sub>2</sub> O	Н	H 4-F
1.392	CH <sub>2</sub> O	Н	H 2-CH <sub>3</sub>
1.393	CH₂O	Н	H 3-CH₃
1.394	CH <sub>2</sub> O	Н	H 4-CH₃
1.395	CH <sub>2</sub> O	Н	H 2-OCH₃
1.396	CH <sub>2</sub> O	Н	H 3-OCH₃
1.397	CH <sub>2</sub> O	Н	H 4-OCH₃
1.398	CH <sub>2</sub> O	Н	H 2-CF <sub>3</sub>
1.399	CH <sub>2</sub> O	Н	H 3-CF₃
1.400	CH <sub>2</sub> O	Н	H 4-CF <sub>3</sub>
1.401	CH₂O	Н	H 2-OCF <sub>3</sub>
1.402	CH <sub>2</sub> O	Н	H 3-OCF₃
1.403	CH₂O	Н	H 4-OCF <sub>3</sub>
1.404	CH₂O	Н	H 2-OCF <sub>2</sub> CF <sub>2</sub>
1.405	CH <sub>2</sub> O	Н	H 3-OCF <sub>2</sub> CF <sub>2</sub>
1.406	CH₂O	Н	H 4-OCF <sub>2</sub> CF <sub>2</sub>
1.407	CH <sub>2</sub> O	Н	H 2-OC <sub>2</sub> F <sub>5</sub>
1.408	CH₂O	Н	H 3-OC₂F <sub>5</sub>
1.409	CH₂O	Н	H 4-OC <sub>2</sub> F <sub>5</sub>
1.410	CH₂O	Н	H 2-OC <sub>6</sub> H <sub>5</sub>
1.411	CH₂O	Н	H 3-OC <sub>6</sub> H <sub>5</sub>
1.412	CH <sub>2</sub> O	Н	H 4-OC <sub>6</sub> H <sub>5</sub>
1.413	CH <sub>2</sub> O	Н	H 2-C(O)C <sub>6</sub> H <sub>5</sub>
1.414	CH <sub>2</sub> O	Н	H 3-C(O)C <sub>6</sub> H <sub>5</sub>
1.415	CH <sub>2</sub> O	Н	H 4-C(O)C <sub>6</sub> H <sub>5</sub>
1.416	CH <sub>2</sub> O	Н	H 4-CN
1.417	CH₂O	Н	CH₃ H
1.418	CH₂O	Н	CH₃ 2-Cl
1.419	CH₂O	Н	CH₃ 3-Cl
1.420	CH₂O	Н	CH <sub>3</sub> 4-Cl
1.421	CH₂O	Н	CH₃ 2-F
1.422	CH₂O	Н	CH₃ 3-F
1.423	CH₂O	Н	CH₃ 4-F
1.424	CH <sub>2</sub> O	Н	CH <sub>3</sub> 2-CH <sub>3</sub>
1.425	CH <sub>2</sub> O	Н	CH <sub>3</sub> 3-CH <sub>3</sub>
1.426	CH <sub>2</sub> O	Н	CH <sub>3</sub> 4-CH <sub>3</sub>
1.427	CH₂O	Н	CH <sub>3</sub> 2-OCH <sub>3</sub>
1.428	CH <sub>2</sub> O	Н	CH₃ 3-OCH₃
1.429	CH <sub>2</sub> O	Н	CH <sub>3</sub> 4-OCH <sub>3</sub>
1.430	CH <sub>2</sub> O	Н	CH <sub>3</sub> 2-CF <sub>3</sub>
1.431	CH <sub>2</sub> O	Н	CH <sub>3</sub> 3-CF <sub>3</sub>
1.432	CH <sub>2</sub> O	Н	CH <sub>3</sub> 4-CF <sub>3</sub>
1.433	CH <sub>2</sub> O	Н	CH <sub>3</sub> 2-OCF <sub>3</sub>
1.434	CH <sub>2</sub> O	Н	CH <sub>3</sub> 3-OCF <sub>3</sub>
1.435	CH <sub>2</sub> O	Н	CH <sub>3</sub> 4-OCF <sub>3</sub>
1.436	CH₂O	Н	CH <sub>3</sub> 2-OCF <sub>2</sub> CF <sub>2</sub>
1.437	CH <sub>2</sub> O	Н	CH <sub>3</sub> 3-OCF <sub>2</sub> CF <sub>2</sub>
1.438	CH <sub>2</sub> O	<u>H</u>	CH <sub>3</sub> 4-OCF <sub>2</sub> CF <sub>2</sub>

1.439	CH₂O	Н	CH₃	2-OC <sub>2</sub> F <sub>5</sub>
1.440	CH <sub>2</sub> O	Н	CH₃	3-OC <sub>2</sub> F <sub>5</sub>
1.441	CH <sub>2</sub> O	Н	CH₃	4-OC <sub>2</sub> F <sub>5</sub>
1.442	CH <sub>2</sub> O	H	CH <sub>3</sub>	2-OC <sub>6</sub> H <sub>5</sub>
1.443	CH <sub>2</sub> O	H	CH <sub>3</sub>	3-OC <sub>6</sub> H <sub>5</sub>
1.444	CH <sub>2</sub> O	H	CH <sub>3</sub>	4-OC <sub>6</sub> H <sub>5</sub>
1.445	CH <sub>2</sub> O	H	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>
	CH <sub>2</sub> O	H	CH <sub>3</sub>	3-C(O)C <sub>6</sub> H <sub>5</sub>
1.446		Н	CH <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>
1.447	CH <sub>2</sub> O		CH <sub>3</sub>	4-CN
1.448	CH <sub>2</sub> O	H		4-0N H
1.449	CH <sub>2</sub> O	H	CF₃	
1.450	CH <sub>2</sub> O	H	CF₃	2-Ci
1.451	CH <sub>2</sub> O	H	CF₃	3-Cl
1.452	CH₂O	H	CF₃	4-Cl
1.453	CH₂O	Н	CF₃	2-F
1.454	CH <sub>2</sub> O	Н	CF₃	3-F
1.455	CH <sub>2</sub> O	Н	CF₃	4-F
1.456	CH₂O	Н	CF <sub>3</sub>	2-CH₃
1.457	CH₂O	Н	CF₃	3-CH₃
1.458	CH <sub>2</sub> O	Н	CF <sub>3</sub>	4-CH₃
1.459	CH <sub>2</sub> O	Н	CF₃	2-OCH₃
1.460	CH <sub>2</sub> O	Н	CF₃	3-OCH₃
1.461	CH <sub>2</sub> O	Н	CF₃	4-OCH₃
1.462	CH <sub>2</sub> O	Н	CF₃	2-CF <sub>3</sub>
1.463	CH <sub>2</sub> O	Н	CF₃	3-CF₃
1.464	CH <sub>2</sub> O	Н	CF <sub>3</sub>	4-CF <sub>3</sub>
1.465	CH₂O	H	CF₃	2-OCF <sub>3</sub>
1.466	CH₂O	Н	CF₃	3-OCF <sub>3</sub>
1.467	CH₂O	Н	CF <sub>3</sub>	4-OCF <sub>3</sub>
1.468	CH₂O	Н	CF <sub>3</sub>	2-OCF <sub>2</sub> CF <sub>2</sub>
1.469	CH₂O	Н	CF <sub>3</sub>	3-OCF <sub>2</sub> CF <sub>2</sub>
1.470	CH₂O	Н	CF <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>
1.471	CH₂O	Н	CF₃	2-OC <sub>2</sub> F <sub>5</sub>
1.472	CH <sub>2</sub> O	H	CF₃	3-OC <sub>2</sub> F <sub>5</sub>
1.473	CH <sub>2</sub> O	H	CF <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>
1.474	CH <sub>2</sub> O	H	CF₃	2-OC <sub>6</sub> H <sub>5</sub>
1.475	CH <sub>2</sub> O	H	CF₃	3-OC <sub>6</sub> H <sub>5</sub>
1.476	CH <sub>2</sub> O	H	CF₃	4-OC <sub>6</sub> H <sub>5</sub>
1.477	CH <sub>2</sub> O	H	CF <sub>3</sub>	2-C(O)C <sub>6</sub> H <sub>5</sub>
1.478		H	CF <sub>3</sub>	3-C(O)C <sub>6</sub> H <sub>5</sub>
1.478	CH <sub>2</sub> O CH <sub>2</sub> O	H	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>
		Н	CF <sub>3</sub>	4-CN
1.480	CH₂O	п 4-OCH₃	H	H
1.481	CH <sub>2</sub> O	-		
1.482	CH <sub>2</sub> O	4-OCH₃	Н	2-Cl
1.483	CH <sub>2</sub> O	4-OCH₃	Н	3-Cl
1.484	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-Cl
1.485	CH₂O	4-OCH <sub>3</sub>	Н	2-F
1.486	CH₂O	4-OCH <sub>3</sub>	Н	3-F
1.487	CH₂O	4-OCH <sub>3</sub>	Н	4-F
1.488	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	2-CH₃

1.489	CH₂O	4-OCH₃	Н	3-CH₃	
1.490	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	4-CH₃	
1.491	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	2-OCH <sub>3</sub>	
1.492	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	3-OCH <sub>3</sub>	
1.493	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	4-OCH <sub>3</sub>	
1.494	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	2-CF <sub>3</sub>	
1.495	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	3-CF <sub>3</sub>	
1.496	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-CF <sub>3</sub>	
1.497	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	2-OCF₃	
1.498	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	3-OCF₃	
1.499	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-OCF₃	
1.500	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.501	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.502	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.503	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	2-OC <sub>2</sub> F <sub>5</sub>	
1.504	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	3-OC <sub>2</sub> F <sub>5</sub>	
1.504	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-OC <sub>2</sub> F <sub>5</sub>	
1.505	CH <sub>2</sub> O	4-00H <sub>3</sub>	H	2-OC <sub>6</sub> H <sub>5</sub>	
1.507	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	3-OC <sub>6</sub> H <sub>5</sub>	*
1.507	CH <sub>2</sub> O	4-OCH <sub>3</sub>	Н	4-OC <sub>6</sub> H <sub>5</sub>	
1.509		4-OCH <sub>3</sub>	H	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.510		4-OCH <sub>3</sub>	H	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.510	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.512	CH <sub>2</sub> O	4-OCH <sub>3</sub>	H	4-CN	
1.512	CH₂O	4-OCH <sub>3</sub>	CH₃	H	
1.514	CH₂O	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-Cl	
1.515	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-Cl	
1.516	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-Cl	
1.517	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	2-F	
1.518	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-F	
1.519	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-F	
1.520	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-CH₃	
1.521	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	3-CH <sub>3</sub>	
1.522	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-CH <sub>3</sub>	
1.523	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-OCH₃	
1.524	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-OCH <sub>3</sub>	
1.525	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OCH <sub>3</sub>	
1.526	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-CF <sub>3</sub>	
1.527	CH <sub>2</sub> O	4-OCH₃	CH <sub>3</sub>	3-CF <sub>3</sub>	
1.528	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-CF <sub>3</sub>	
1.529	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	2-OCF <sub>3</sub>	
1.530	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-OCF <sub>3</sub>	
1.531		4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OCF <sub>3</sub>	
1.532	CH <sub>2</sub> O	4-0CH <sub>3</sub>	CH <sub>3</sub>	2-OCF <sub>2</sub> CF <sub>2</sub>	
	CH₂O CH₂O	4-OCH <sub>3</sub>	CH <sub>3</sub>	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.533	CH₂O CH₂O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.534 1.535	CH₂O	4-OCH <sub>3</sub>	CH <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>	
		4-OCH₃ 4-OCH₃	CH <sub>3</sub>	2-00₂г₅ 3-0С₂ <b>F</b> ₅	
1.536	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>	
1.537	CH <sub>2</sub> O	_	-	4-00 <sub>2</sub> F <sub>5</sub> 2-0C <sub>6</sub> H <sub>5</sub>	
_1.538	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	2-006i 15	

1.539	CH₂O	4-OCH₃	CH₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.540	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.541	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.542	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.543	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.544	CH₂O	4-OCH <sub>3</sub>	CH <sub>3</sub>	4-CN	
1.545	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	H .	
1.546	CH <sub>2</sub> O	4-OCH₃	CF <sub>3</sub>	2-Cl	
1.547	CH <sub>2</sub> O	4-OCH₃	CF <sub>3</sub>	3-Cl	
1.548	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-Cl	
1.549	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	2-F	
1.550	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	3-F	
1.551	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-F	
1.552	CH <sub>2</sub> O	4-OCH₃	CF₃	2-CH₃	
1.553	CH <sub>2</sub> O	4-OCH₃	CF₃	3-CH <sub>3</sub>	
1.554	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	4-CH <sub>3</sub>	
1.555	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	2-OCH₃	
1.556	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	3-OCH₃	
1.557	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OCH₃	
1.558	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	2-CF <sub>3</sub>	
1.559	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	3-CF <sub>3</sub>	
1.560	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-CF <sub>3</sub>	
1.561	CH₂O	4-OCH <sub>3</sub>	CF₃	2-OCF <sub>3</sub>	
1.562	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	3-OCF <sub>3</sub>	
1.563	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OCF <sub>3</sub>	
1.564	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.565	CH₂O	4-OCH <sub>3</sub>	CF₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.566	CH₂O	4-OCH₃	CF <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.567	CH₂O	4-OCH <sub>3</sub>	CF <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>	
1.568	CH₂O	4-OCH <sub>3</sub>	CF <sub>3</sub>	3-OC <sub>2</sub> F <sub>5</sub>	
1.569	CH₂O	4-OCH <sub>3</sub>	CF <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>	
1.570	CH₂O	4-OCH <sub>3</sub>	CF <sub>3</sub>	2-OC <sub>6</sub> H <sub>5</sub>	
1.571	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF <sub>3</sub>	3-OC <sub>6</sub> H <sub>5</sub>	
1.572	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.573	CH <sub>2</sub> O	4-OCH <sub>3</sub>	CF₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.574	CH <sub>2</sub> O	4-OCH₃	CF₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.575	CH <sub>2</sub> O	4-OCH₃	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.576	CH <sub>2</sub> O	4-OCH₃	CF <sub>3</sub>	4-CN	
1.577	CH₂O	5-Cl	Н	Н	
1.578	CH <sub>2</sub> O	5-Cl	Н	2-Cl	
1.579	CH <sub>2</sub> O	5-Cl	Н	3-CI	
1.580	CH <sub>2</sub> O	5-CI	Н	4-CI	
1.581	CH <sub>2</sub> O	5-Cl	Н	2-F	
1.582	CH <sub>2</sub> O	5-CI	Н	3-F	
1.583	CH <sub>2</sub> O	5-Cl	Н	4-F	
1.584	CH₂O	5-Cl	Н	2-CH₃	
1.585	CH₂O	5-Cl	Н	3-CH₃	
1.586	CH <sub>2</sub> O	5-Cl	Н	4-CH₃	
1.587	CH <sub>2</sub> O	5-Cl	Н	2-OCH <sub>3</sub>	
1.588	CH <sub>2</sub> O	5-Cl	Н	3-OCH <sub>3</sub>	

1.589	CH <sub>2</sub> O	5-CI	Н	4-OCH <sub>3</sub>	
1.590	CH <sub>2</sub> O	5-Cl	Н	2-CF₃	
1.591	CH₂O	5-CI	Н	3-CF₃	
1.592	CH₂O	5-Cl	Н	4-CF <sub>3</sub>	
1.593	CH <sub>2</sub> O	5-Cl	Н	2-OCF <sub>3</sub>	
1.594	CH₂O	5-Cl	Н	3-OCF <sub>3</sub>	
1.595	CH₂O	5-Cl	Н	4-OCF <sub>3</sub>	
1.596	CH <sub>2</sub> O	5-Cl	Н	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.597	CH <sub>2</sub> O	5-Cl	Н	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.598	CH <sub>2</sub> O	5-Cl	Н	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.599	CH <sub>2</sub> O	5-Ci	H	2-OC <sub>2</sub> F <sub>5</sub>	
1.600	CH <sub>2</sub> O	5-Cl	Ĥ	3-OC <sub>2</sub> F <sub>5</sub>	
1.601	CH <sub>2</sub> O	5-Cl	Н	4-OC <sub>2</sub> F <sub>5</sub>	
1.602	CH <sub>2</sub> O	5-Cl	Н	2-OC <sub>6</sub> H <sub>5</sub>	
1.603	CH <sub>2</sub> O	5-Cl	H	3-OC <sub>6</sub> H₅	
1.604	CH <sub>2</sub> O	5-Cl	Ĥ	4-OC <sub>6</sub> H <sub>5</sub>	
1.605	CH <sub>2</sub> O	5-CI	H	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.606	CH <sub>2</sub> O	5-CI	Н	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.607	CH <sub>2</sub> O	5-Cl	H	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.608	CH <sub>2</sub> O	5-Cl	H	4-CN	
1.609	CH <sub>2</sub> O	5-Cl	CH₃	Н	
1.610	CH <sub>2</sub> O	5-Cl	CH₃	2-Cl	
1.611	CH <sub>2</sub> O	5-Cl	CH₃	3-CI	
1.612	CH <sub>2</sub> O	5-Cl	CH₃	4-CI	
1.613	CH <sub>2</sub> O	5-CI	CH₃	2-F	
1.614	CH <sub>2</sub> O	5-Cl	CH₃	3 <b>-F</b>	
1.615	CH <sub>2</sub> O	5-Cl	CH <sub>3</sub>	4-F	
1.616	CH <sub>2</sub> O	5-Cl	CH₃	2-CH₃	
1.617	CH <sub>2</sub> O	5-Cl	CH₃	3-CH₃	
1.618	CH <sub>2</sub> O	5-Cl	CH₃	4-CH₃	
1.619	CH <sub>2</sub> O	5-CI	CH₃	2-OCH₃	
1.620	CH <sub>2</sub> O	5-Cl	CH₃	3-OCH₃	
1.621	CH <sub>2</sub> O	5-CI	CH₃	4-OCH₃	
1.622	CH <sub>2</sub> O	5-CI	CH₃	2-CF₃	
1.623	CH₂O	5-CI	CH₃	3-CF <sub>3</sub>	
1.624	CH <sub>2</sub> O	5-CI	CH₃	4-CF <sub>3</sub>	
1.625	CH <sub>2</sub> O	5-CI	СН₃	2-OCF <sub>3</sub>	
1.626	CH₂O	5-CI	CH₃	3-OCF <sub>3</sub>	
1.627	CH <sub>2</sub> O	5-CI	CH₃	4-OCF <sub>3</sub>	
1.628	CH₂O	5-CI	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.629	CH₂O	5-CI	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.630	CH₂O	5-CI	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.631	CH <sub>2</sub> O	5-CI	CH₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.632	CH <sub>2</sub> O	5-CI	CH₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.633	CH <sub>2</sub> O	5-CI	CH₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.634	CH <sub>2</sub> O	5-CI	CH₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.635	CH <sub>2</sub> O	5-CI	CH₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.636	CH <sub>2</sub> O	5-CI	CH <sub>3</sub>	4-OC <sub>6</sub> H <sub>5</sub>	
1.637	CH <sub>2</sub> O	5-CI	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.638	CH <sub>2</sub> O	5-CI	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	

1.639	CH₂O	5-Cl	CH₃	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.640	CH₂O	5-Cl	CH₃	4-CN	
1.641	CH <sub>2</sub> O	5-Cl	CF₃	H 2-Cl	
1.642	CH <sub>2</sub> O	5-Cl	CF₃ CF₃	3-Cl	
1.643	CH <sub>2</sub> O	5-Cl 5-Cl	CF₃ CF₃	4-Cl	
1.644	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	2- <b>F</b>	
1.645 1.646	CH₂O CH₂O	5-Cl	CF₃	3-F	
1.647	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	4-F	
1.648	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	2-CH₃	
1.649	CH <sub>2</sub> O	5-CI	CF₃	3-CH₃	
1.650	CH <sub>2</sub> O	5-CI	CF <sub>3</sub>	4-CH₃	
1.651	CH₂O	5-CI	CF <sub>3</sub>	2-OCH <sub>3</sub>	
1.652	CH₂O	5-Cl	CF <sub>3</sub>	3-OCH₃	
1.653	CH <sub>2</sub> O	5-Cl	CF₃	4-OCH₃	
1.654	CH <sub>2</sub> O	5-Cl	CF₃	2-CF₃	
1.655	CH <sub>2</sub> O	5-Cl	CF₃	3-CF <sub>3</sub>	
1.656	CH <sub>2</sub> O	5-Cl	CF₃	4-CF₃ 2-OCF₃	
1.657	CH₂O	5-Cl 5-Cl	CF₃ CF₃	2-00F <sub>3</sub> 3-0CF <sub>3</sub>	
1.658 1.659	CH₂O CH₂O	5-Cl	CF <sub>3</sub>	4-OCF <sub>3</sub>	
1.660	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.661	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.662	CH <sub>2</sub> O	5-Cl	CF₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.663	CH₂O	5-CI	CF <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>	
1.664	CH <sub>2</sub> O	5-Cl	CF₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.665	CH <sub>2</sub> O	5-CI	CF₃	4-OC₂F <sub>5</sub>	
1.666	CH <sub>2</sub> O	5-Cl	CF₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.667	CH <sub>2</sub> O	5-Cl	CF₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.668	CH <sub>2</sub> O	5-CI	CF₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.669	CH <sub>2</sub> O	5-Cl	CF₃ CF₃	2-C(O)C <sub>6</sub> H <sub>5</sub> 3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.670 1.671	CH₂O CH₂O	5-CI 5-CI	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.672	CH <sub>2</sub> O	5-Cl	CF <sub>3</sub>	4-CN	
1.673	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	H	
1.674	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	2-Cl	m.p. 92°
1.675	CH₂O	5-NO <sub>2</sub>	Н	3-CI	
1.676	CH₂O	5-NO <sub>2</sub>	Н	4-CI	
1.677	CH₂O	5-NO <sub>2</sub>	Н	2-F	
1.678	CH₂O	5-NO <sub>2</sub>	Н	3-F	
1.679	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	4-F	
1.680	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	2-CH₃	
1.681	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	3-CH₃ 4-CH₃	
1.682	CH₂O CH₂O	5-NO <sub>2</sub> 5-NO <sub>2</sub>	H H	4-Сп₃ 2-ОСН₃	
1.683 1.684	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	2-00H <sub>3</sub>	
1.685	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	4-OCH₃	
1.686	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	2-CF <sub>3</sub>	
1.687	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	3-CF <sub>3</sub>	
1.688	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	4-CF <sub>3</sub>	

1.689	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	2-OCF <sub>3</sub>	
1.690	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	3-OCF₃	
1.691	CH₂O	5-NO <sub>2</sub>	Н	4-OCF <sub>3</sub>	
1.692	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.693	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.694	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	4-OCF <sub>2</sub> CF <sub>2</sub> 2-OC <sub>2</sub> F <sub>5</sub>	
1.695	CH <sub>2</sub> O	5-NO <sub>2</sub>	H H	2-00 <sub>2</sub> F <sub>5</sub> 3-0C <sub>2</sub> F <sub>5</sub>	
1.696 1.697	CH₂O CH₂O	5-NO₂ 5-NO₂	H	4-OC <sub>2</sub> F <sub>5</sub>	
1.698	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	2-OC <sub>6</sub> H <sub>5</sub>	
1.699	CH <sub>2</sub> O	5-NO <sub>2</sub>	H	3-OC <sub>6</sub> H <sub>5</sub>	
1.700	CH <sub>2</sub> O	5-NO <sub>2</sub>	Ĥ	4-OC <sub>6</sub> H <sub>5</sub>	
1.701	CH₂O	5-NO <sub>2</sub>	Н	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.702	CH₂O	5-NO <sub>2</sub>	Н	$3-C(O)C_6H_5$	
1.703	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.704	CH <sub>2</sub> O	5-NO <sub>2</sub>	Н	4-CN	
1.705	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	H	
1.706	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-CI	
1.707	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-CI	
1.708	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃ CH₃	4-CI 2-F	
1.709	CH₂O CH₂O	5-NO₂ 5-NO₂	CH₃ CH₃	2-F 3-F	
1.710 1.711	CH₂O CH₂O	5-NO <sub>2</sub>	CH <sub>3</sub>	4-F	
1.712	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-CH₃	
1.713	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-CH₃	
1.714	CH <sub>2</sub> O	5-NO₂ -	CH₃	4-CH <sub>3</sub>	
1.715	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-OCH₃	
1.716	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-OCH <sub>3</sub>	
1.717	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	4-OCH <sub>3</sub>	
1.718	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-CF₃	
1.719	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-CF₃	
1.720	CH₂O	5-NO <sub>2</sub>	CH₃	4-CF₃ 2-OCF₃	
1.721 1.722	CH₂O CH₂O	5-NO <sub>2</sub> 5-NO <sub>2</sub>	CH₃ CH₃	2-0CF₃ 3-0CF₃	
1.723	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH <sub>3</sub>	4-OCF <sub>3</sub>	
1.724	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.725	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.726	CH₂O	5-NO <sub>2</sub>	CH₃	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.727	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-OC <sub>2</sub> F <sub>5</sub>	
1.728	CH₂O	5-NO <sub>2</sub>	CH₃	3-OC <sub>2</sub> F <sub>5</sub>	
1.729	CH₂O	5-NO <sub>2</sub>	CH₃	4-OC <sub>2</sub> F <sub>5</sub>	
1.730	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.731	CH₂O	5-NO <sub>2</sub>	CH₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.732	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.733	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.734	CH <sub>2</sub> O	5-NO <sub>2</sub>	CH₃	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.735	CH₂O CH₂O	5-NO <sub>2</sub> 5-NO <sub>2</sub>	CH₃ CH₃	4-C(O)C <sub>6</sub> H <sub>5</sub> 4-CN	
1.736 1.737	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	H H	
1.737	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	2-CI	
1.700	U1 12U	0.1102	VI 3		

1.739	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	3-Cl	
1.740	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	4-CI	
1.741	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	2-F	
1.742	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	3-F	
1.743	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	4- <b>F</b>	
1.744	CH <sub>2</sub> O	5-NO₂	CF <sub>3</sub>	2-CH₃	
1.745	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	3-CH₃	
1.746	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	4-CH₃	
1.747	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	2-OCH₃	
1.748	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	3-OCH₃	
1.749	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	4-OCH₃	
1.750	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	2-CF₃	
1.751	CH₂O	5-NO <sub>2</sub>	CF₃	3-CF₃	
1.752	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	4-CF <sub>3</sub>	
1.753	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	2-OCF₃	
1.754	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	3-OCF₃	
1.755	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	4-OCF <sub>3</sub>	
1.756	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	2-OCF <sub>2</sub> CF <sub>2</sub>	
1.757	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	3-OCF <sub>2</sub> CF <sub>2</sub>	
1.758	CH <sub>2</sub> O	5-NO₂	CF <sub>3</sub>	4-OCF <sub>2</sub> CF <sub>2</sub>	
1.759	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF <sub>3</sub>	2-OC <sub>2</sub> F <sub>5</sub>	
1.760	CH₂O	5-NO₂	CF₃	$3-OC_2F_5$	
1.761	CH₂O	5-NO <sub>2</sub>	CF <sub>3</sub>	4-OC <sub>2</sub> F <sub>5</sub>	
1.762	CH₂O	5-NO <sub>2</sub>	CF₃	2-OC <sub>6</sub> H <sub>5</sub>	
1.763	CH₂O	5-NO <sub>2</sub>	CF₃	3-OC <sub>6</sub> H <sub>5</sub>	
1.764	CH₂O	5-NO <sub>2</sub>	CF₃	4-OC <sub>6</sub> H <sub>5</sub>	
1.765	CH₂O	5-NO <sub>2</sub>	CF₃	2-C(O)C <sub>6</sub> H <sub>5</sub>	
1.766	CH₂O	5-NO₂	CF <sub>3</sub>	3-C(O)C <sub>6</sub> H <sub>5</sub>	
1.767	CH₂O	5-NO₂	CF <sub>3</sub>	4-C(O)C <sub>6</sub> H <sub>5</sub>	
1.768	CH <sub>2</sub> O	5-NO <sub>2</sub>	CF₃	4-CN	

#### **Biological Examples:**

# 1. In-vivo test on *Trichostrongylus colubriformis* and *Haemonchus contortus* on Mongolian gerbils (*Meriones unguiculatus*) using peroral application

Six to eight week old Mongolian gerbils are infected by artificial feeding with ca. 2000 third instar larvae each of *T. colubriformis* and *H. contortus*. 6 days after infection, the gerbils are lightly anaesthetised with N<sub>2</sub>O and treated by peroral application with the test compounds, dissolved in a mixture of 2 parts DMSO and 1 part polyethylene glycol (PEG 300), in quantities of 100, 32 and 10 -0.1 mg/kg. On day 9 (3 days after treatment), when most of the *H. contortus* that are still present are late 4th instar larvae and most of the *T. colubriformis* are immature adults, the gerbils are killed in order to count the worms. The efficacy is calculated as the % reduction of the number of worms in each gerbil, compared with the geometric average of number of worms from 8 infected and untreated gerbils.

In this test, a vast reduction in nematode infestation is achieved with compounds of formula I, especially from Table 1.

To examine the insecticidal and/or acaricidal activity of the compounds of formula I on animals and plants, the following test methods may be used.

## 2. Activity on L<sub>1</sub> larvae of Lucilia sericata

1 ml of an aqueous suspension of the active substance to be tested is admixed with 3 ml of a special larvae growth medium at ca. 50°C, so that a homogenate of either 250 or 125 ppm of active ingredient content is obtained. Ca. 30 *Lucilia* larvae (L<sub>1</sub>) are used in each test tube sample. After 4 days, the mortality rate is determined.

# 3. Acaricidal activity on Boophilus microplus (Biarra strain)

A piece of sticky tape is attached horizontally to a PVC sheet, so that 10 fully engorged female ticks of *Boophilus microplus* (Biarra strain) can be adhered thereto by their backs, side by side, in a row. Using an injection needle, 1 μl of a liquid is injected into each tick. The liquid is a 1:1 mixture of polyethylene glycol and acetone and it contains, dissolved therein, a certain amount of active ingredient chosen from 1, 0.1 or 0.01 μg per tick. Control animals are given an injection without active ingredient. After treatment, the animals are kept under normal conditions in an insectarium at ca. 28°C and at 80% relative humidity until oviposition takes place and the larvae have hatched from the eggs of the control animals. The activity of a tested substance is determined by IR<sub>90</sub>, i.e. an evaluation is made of the dosage of active

ingredient at which 9 out of 10 female ticks (=90%) lay eggs that are infertile even after 30 days.

# 4. In vitro efficacy on engorged female Boophilus microplus (BIARRA):

4x10 engorged female ticks of the OP-resistant BIARRA strain are adhered to a sticky strip and covered for 1 hour with a cotton-wool ball soaked in an emulsion or suspension of the test compound in concentrations of 500, 125, 31 and 8 ppm respectively. Evaluation takes place 28 days later based on mortality, oviposition and hatched larvae.

An indication of the activity of the test compounds is shown by the number of females that

- die quickly before laying eggs,
- survive for some time without laying eggs,
- lay eggs in which no embryos are formed,
- lay eggs in which embryos form, from which no larvae hatch, and
- lay eggs in which embryos form, from which larvae normally hatch within 26 to 27 days.

### 5. In vitro efficacy on nymphs of Amblyomma hebraeum

About 5 fasting nymphs are placed in a polystyrene test tube containing 2 ml of the test compound in solution, suspension or emulsion.

After immersion for 10 minutes, and shaking for 2x10 seconds on a vortex mixer, the test tubes are blocked up with a tight wad of cotton wool and rotated. As soon as all the liquid has been soaked up by the cotton wool ball, it is pushed half-way into the test tube which is still being rotated, so that most of the liquid is squeezed out of the cotton-wool ball and flows into a Petri dish below.

The test tubes are then kept at room temperature in a room with daylight until evaluated. After 14 days, the test tubes are immersed in a beaker of boiling water. If the ticks begin to move in reaction to the heat, the test substance is inactive at the tested concentration, otherwise the ticks are regarded as dead and the test substances regarded as active at the tested concentration. All substances are tested in a concentration range of 0.1 to 100 ppm.

#### 6. Activity against Dermanyssus gallinae

2 to 3 ml of a solution containing 10 ppm active ingredient, and ca. 200 mites (*Dermanyssus gallinae*) at different stages of development are added to a glass container which is open at the top. Then the container is closed with a wad of cotton wool, shaken for 10 minutes until the mites are completely wet, and then inverted briefly so that the remaining test solution can

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be absorbed by the cotton wool. After 3 days, the mortality of the mites is determined by counting the dead individuals and indicated as a percentage.

# 7. Activity against Musca domestica

A sugar cube is treated with a solution of the test substance in such a way that the concentration of test substance in the sugar, after drying over night, is 250 ppm. The cube treated in this way is placed on an aluminium dish with wet cotton wool and 10 adult *Musca domestica* of an OP-resistant strain, covered with a beaker and incubated at 25°C. The mortality rate is determined after 24 hours.

#### What we claim is:

#### 1. Compounds of formula

$$\begin{array}{c|c}
R_1 \\
R_2 \\
R_4 \\
R_6
\end{array}$$

$$\begin{array}{c|c}
R_3 \\
R_5 \\
R_6
\end{array}$$

$$\begin{array}{c|c}
Y - R_7 \\
R_6
\end{array}$$

#### wherein

 $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -cycloalkyloxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylcarbonyl, halo- $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylamino, di( $C_1$ - $C_6$ -alkyl) amino or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl, and halo- $C_1$ - $C_6$ -alkylsulfonyl;

 $R_2$  signifies hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylthio,  $C_1$ - $C_6$ -alkoxy,  $C_3$ - $C_6$ -cycloalkyloxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl, NR<sub>8</sub>R<sub>9</sub>, hetaryl which is unsubstituted or substituted once or many times, phenyl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy and halo- $C_1$ - $C_6$ -alkoxy;

 $R_3$ ,  $R_4$  und  $R_5$  either, independently of one another, signify hydrogen, halogen,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl;  $C_3$ - $C_6$ -cycloalkyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen and  $C_1$ - $C_6$ -alkyl; phenyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_$ 

or R<sub>4</sub> and R<sub>5</sub> together signify C<sub>2</sub>-C<sub>6</sub>-alkylene;

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 $R_6$  signifies hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkylcarbonyl, aminocarbonyl,  $C_1$ - $C_6$ -alkoxycarbonyl, halo- $C_1$ - $C_6$ -alkylcarbonyl, thio- $C_1$ - $C_6$ -alkylcarbonyl or benzyl;

R<sub>7</sub> signifies hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylamino, di(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-cycloalkyloxy, halo-C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>2</sub>-C<sub>6</sub>-alkenyl, halo-C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>2</sub>-C<sub>6</sub>-alkinyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>6</sub>alkenyloxy, halo-C<sub>2</sub>-C<sub>6</sub>-alkenyloxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>alkylsulfonyloxy, halo- $C_1$ - $C_6$ -alkylsulfonyloxy,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_2$ - $C_6$ -alkenylthio, halo- $C_2$ - $C_6$ -alkenylthio,  $C_2$ - $C_6$ alkenylsulfinyl, halo-C2-C6-alkenylsulfinyl, C2-C6-alkenylsulfonyl, halo-C2-C6-alkenylsulfonyl, C<sub>1</sub>-C<sub>6</sub>-alkylamino, di(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonylamino, halo-C<sub>1</sub>-C<sub>6</sub>alkylsulfonylamino. C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>-alkyl)aminocarbonyl; aryl-C<sub>1</sub>-C<sub>6</sub>-alkyl which is unsubstituted or substituted once or many times, arylamino which is unsubstituted or substituted once or many times, arylcarbonyl which is unsubstituted or substituted once or many times, arylcarbonyloxy which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, aryloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl which is unsubstituted or substituted once or many times, hetaryloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl which is unsubstituted or substituted once or many times, anyloxycarbonyl which is unsubstituted or substituted once or many times, arylsulfonyl which is unsubstituted or substituted once or many times, arylsulfonylamino which is unsubstituted or substituted once or many times, pyridyloxy which is unsubstituted or substituted once or many times, and phenylacetylenyl which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>6</sub>-alkyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>6</sub>-alkylthio, C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, halo-C<sub>1</sub>-C<sub>6</sub>-alkylsulfinyl, C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl and halo-C<sub>1</sub>-C<sub>6</sub>-alkylsulfonyl;

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_2$ - $C_6$ -alkenyloxy, halo- $C_2$ - $C_6$ -alkenyloxy,  $C_1$ - $C_6$ -alkylthio, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_2$ - $C_6$ -alkenylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkenylsulfinyl, halo- $C_1$ - $C_6$ 

 $C_2$ - $C_6$ -alkenylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_2$ - $C_6$ -alkenylsulfonyl, halo- $C_2$ - $C_6$ -alkenylsulfonyl,  $C_1$ - $C_6$ -alkylamino and di( $C_1$ - $C_6$ -alkyl)amino; or unsubstituted naphthyl or quinolyl, or naphthyl or quinolyl which is substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_6$ -alkyl, halo- $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy, halo- $C_1$ - $C_6$ -alkoxy,  $C_2$ - $C_6$ -alkenyloxy, halo- $C_2$ - $C_6$ -alkenyloxy,  $C_1$ - $C_6$ -alkylsulfinyl, halo- $C_1$ - $C_6$ -alkylsulfinyl,  $C_2$ - $C_6$ -alkenylsulfinyl, halo- $C_2$ - $C_6$ -alkenylsulfinyl, halo- $C_2$ - $C_6$ -alkenylsulfinyl,  $C_1$ - $C_6$ -alkylsulfonyl and halo- $C_1$ - $C_6$ -alkylsulfonyl,  $C_2$ - $C_6$ -alkenylsulfonyl, halo- $C_2$ - $C_6$ -alkenylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_2$ - $C_6$ -alkenylsulfonyl, halo- $C_2$ - $C_6$ -alkenylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl,  $C_1$ - $C_6$ -alkylsulfonyl, halo- $C_2$ - $C_6$ -alkylsulfonyl, halo- $C_3$ - $C_6$ -alkenylsulfonyl, halo- $C_4$ - $C_6$ -alkylsulfonyl, halo- $C_4$ - $C_6$ 

 $R_8$  and  $R_9$ , independently of one another, signify hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkylcarbonyl, thio- $C_1$ - $C_6$ -alkylcarbonyl, aryl or hetaryl;

Y signifies a direct bond, C(O), C(S) or  $S(O)_0$ ;

a signifies 1, 2 or 3; and

n is 1 or 2.

- 2. A compound of formula I, according to claim 1, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_4$ -alkylcarbonyl, halo- $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_4$ -alkylsulfonyl or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy.
- 3. A compound of formula I, according to claim 1, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo- $C_1$ - $C_4$ -alkoxy.
- 4. A compound of formula I, according to claim 1, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or halo- $C_1$ - $C_2$ -alkoxy.
- 5. A compound of formula I, according to claim 1, wherein R<sub>2</sub> signifies hydrogen, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy or C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl.

- 6. A compound of formula I, according to claim 1, wherein R<sub>2</sub> signifies hydrogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy or halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy;
- 7. A compound of formula I according to claim 1, wherein R<sub>2</sub> is hydrogen, methyl or halomethyl.
- 8. A compound of formula I, according to claim 1, wherein  $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, are hydrogen, halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_3$ - $C_6$ -cycloalkyl; phenyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylthio; or  $R_4$  and  $R_5$  together are  $C_2$ - $C_6$ -alkylene.
- 9. A compound of formula I according to claim 1, wherein  $R_3$ ,  $R_4$  and  $R_5$  are hydrogen, halogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl or  $C_3$ - $C_6$ -cycloalkyl.
- 10. A compound of formula I according to claim 1, wherein  $R_3$ ,  $R_4$  and  $R_5$  are hydrogen, methyl or halomethyl.
- 11. A compound of formula I, according to claim 1, wherein  $R_6$  is hydrogen,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkyl or benzyl.
- 12. A compound of formula I, according to claim 1, wherein  $R_6$  is hydrogen,  $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkylcarbonyl or benzyl.
- 13. A compound of formula I according to claim 1, wherein R<sub>6</sub> is hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl.
- 14. A compound of formula I, according to claim 1, wherein R<sub>7</sub> signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>2</sub>-C<sub>4</sub>-alkenyl, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyloxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyloxy, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, C<sub>2</sub>-C<sub>4</sub>-alkenylsulfonyl, halo-C<sub>2</sub>-C<sub>4</sub>-alkenylsulfonyl, C<sub>1</sub>-C<sub>4</sub>-alkylamino, di(C<sub>1</sub>-C<sub>4</sub>-alkyl)amino, C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl; aryl-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, aryloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted or substituted

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many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl;

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl and halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl; or

naphthyl or quinolyl which are unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>2</sub>-C<sub>4</sub>-alkenylthio, halo-C<sub>2</sub>-C<sub>4</sub>-alkenylthio, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl and halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl;

15. A compound of formula I, according to claim 1, wherein  $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl, which is unsubstituted or substituted or substituted or substituted or substituted or substituted or substituted once or many times, aryloxy- $C_1$ - $C_2$ -alkyl, which is unsubstituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl, or halo- $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl; or

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_2$ - $C_4$ -alkenyloxy, halo- $C_2$ - $C_4$ -alkenyloxy,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl.

- 16. A compound of formula I, according to claim 1, wherein R<sub>7</sub> signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, cyano, C<sub>1</sub>-C<sub>2</sub>-alkyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy, C<sub>3</sub>-C<sub>5</sub>-cycloalkyl, C<sub>1</sub>-C<sub>2</sub>alkylcarbonyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>2</sub>-alkoxycarbonyl; aryl-C<sub>1</sub>-C<sub>2</sub>-alkyl which is unsubstituted or substituted once or many times, and aryloxy-C<sub>1</sub>.C<sub>2</sub>-alkyl which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy and halo- $C_1$ - $C_2$ -alkoxy.
- 17. A compound of formula I, according to claim 1, wherein R<sub>8</sub> und R<sub>9</sub> independently of one another, are hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkylcarbonyl or aryl.
- 18. A compound of formula I according to claim 1, wherein R<sub>8</sub> and R<sub>9</sub> independently of one another are hydrogen or C<sub>1</sub>-C<sub>4</sub>-alkyl.
- 19. A compound of formula I according to claim 1, wherein R<sub>8</sub> and R<sub>9</sub> independently of one another are hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl.
- 20. A compound of formula I, according to claim 1, wherein Y is C(O) or S(O)<sub>0</sub>.
- 21. A compound of formula I, according to claim 1, wherein Y is C(O).
- 22. A compound of formula I according to claim 1, wherein a is 1 or 2.
- 23. A compound of formula I according to claim 1, wherein a is 1.
- 24. A compound of formula I according to claim 1, wherein n is 2.
- 25. A compound of formula I, according to claim 1, wherein R<sub>1</sub> signifies hydrogen, halogen, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy and halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy;

 $R_2$  is hydrogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy or C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl;

R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub>, independently of one another, are hydrogen, halogen, C₁-C₄-alkyl, halo-C₁-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl; phenyl that is either unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from WO 03/104202

the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy;  $C_1$ - $C_4$ -alkylthio and halo- $C_1$ - $C_4$ -alkylthio; or  $R_4$  and  $R_5$  together are  $C_2$ - $C_6$ -alkylene;

 $R_6$  is hydrogen,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkylcarbonyl,  $C_1$ - $C_6$ -alkoxy- $C_1$ - $C_6$ -alkyl or benzyl;

R<sub>7</sub> signifies anyl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C<sub>1</sub>-C<sub>4</sub>-alkyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>2</sub>-C<sub>4</sub>-alkenyl, halo-C<sub>2</sub>-C<sub>4</sub>-alkenyl, C<sub>2</sub>-C<sub>4</sub>-alkinyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>2</sub>-C<sub>4</sub>-alkenyloxy, halo-C<sub>2</sub>-C<sub>4</sub>alkenyloxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyloxy, halo-C<sub>1</sub>-C<sub>4</sub>alkylsulfonyloxy, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl, C<sub>2</sub>-C<sub>4</sub>-alkenylsulfonyl, halo-C<sub>2</sub>-C<sub>4</sub>-alkenylsulfonyl, C<sub>1</sub>-C<sub>4</sub>-alkylamino, di(C<sub>1</sub>-C<sub>4</sub>-alkyl)amino, C<sub>1</sub>-C<sub>4</sub>-alkylcarbonyl, halo-C<sub>1</sub>-C<sub>4</sub>alkylcarbonyl, C<sub>1</sub>-C<sub>6</sub>-alkoxycarbonyl; aryl-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, anyloxy which is unsubstituted or substituted once or many times, aryloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, hetaryloxy-C<sub>1</sub>-C<sub>4</sub>-alkyl which is unsubstituted or substituted once or many times, aryloxycarbonyl which is unsubstituted or substituted once or many times, arylsulfonyl which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted or substituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, nitro, cyano, C1-C4-alkyl, halo-C1-C4-alkyl, C1-C<sub>4</sub>-alkoxy, halo-C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio, halo-C<sub>1</sub>-C<sub>4</sub>-alkylthio, C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl and halo-C<sub>1</sub>-C<sub>4</sub>-alkylsulfonyl;

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy,  $C_2$ - $C_4$ -alkyloxy, halo- $C_2$ - $C_4$ -alkenyloxy,  $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl; or

naphthyl or quinolyl which are unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkoxy, halo- $C_1$ - $C_4$ -alkylthio, halo- $C_1$ - $C_4$ -alkylthio,  $C_2$ - $C_4$ -alkylthio,  $C_2$ - $C_4$ -alkylthio, halo- $C_2$ - $C_4$ -alkylthio,  $C_1$ - $C_4$ -alkylsulfonyl and halo- $C_1$ - $C_4$ -alkylsulfonyl;

 $R_8$  und  $R_9$  independently of one another, signify hydrogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkylcarbonyl or aryl;

Y is C(O) or  $S(O)_n$ ;

a signifies 1 or 2; and

n is 2.

26. A compound of formula I, according to claim 1, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, or unsubstituted or substituted phenoxy, whereby the substituents may be independent of one another and are selected from the group consisting of halogen,  $C_1$ - $C_4$ -alkyl, halo- $C_1$ - $C_4$ -alkoxy; and halo- $C_1$ - $C_4$ -alkoxy;

R<sub>2</sub> signifies hydrogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy or halo-C<sub>1</sub>-C<sub>2</sub>-alkoxy;

 $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, signify hydrogen, halogen,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl or  $C_3$ - $C_6$ -cycloalkyl;

R<sub>6</sub> signifies hydrogen, C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkylcarbonyl or benzyl;

 $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_3$ - $C_5$ -cycloalkyl,  $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl,  $C_1$ - $C_2$ -alkylcarbonyl; aryl- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, aryloxy which is unsubstituted or substituted once or many times, and pyridyloxy which is unsubstituted once or many times, and pyridyloxy which is unsubstituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkylthio, halo- $C_1$ - $C_2$ -alkylthio,  $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl; or

hetaryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, nitro, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkylsulfonyl and halo- $C_1$ - $C_2$ -alkylsulfonyl;

 $R_{8}$  and  $R_{9},$  independently of one another, signify hydrogen or  $C_{1}\text{-}C_{4}\text{-}\text{alkyl};$ 

Y signifies C(O);

a signifies 1; and

n is 2.

27. A compound of formula I, according to claim 1, wherein  $R_1$  signifies hydrogen, halogen, cyano, nitro,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy or halo- $C_1$ - $C_2$ -alkoxy;

R<sub>2</sub> is hydrogen, methyl or halomethyl;

 $R_3$ ,  $R_4$  and  $R_5$ , independently of one another, signify hydrogen, methyl or halomethyl;

R<sub>6</sub> signifies hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl;

 $R_7$  signifies aryl which is unsubstituted or substituted once or many times, whereby the substituents may be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy, halo- $C_1$ - $C_2$ -alkoxy,  $C_3$ - $C_5$ -cycloalkyl,  $C_1$ - $C_2$ -alkylcarbonyl, halo- $C_1$ - $C_2$ -alkylcarbonyl,  $C_1$ - $C_2$ -alkoxycarbonyl; aryl- $C_1$ - $C_2$ -alkyl which is unsubstituted or substituted once or many times, and aryloxy- $C_1$ - $C_2$ -alkyl which is unsubstituted once or many times, whereby the substituents may each be independent of one another and are selected from the group consisting of halogen, cyano,  $C_1$ - $C_2$ -alkyl, halo- $C_1$ - $C_2$ -alkyl,  $C_1$ - $C_2$ -alkoxy and halo- $C_1$ - $C_2$ -alkoxy;

R<sub>8</sub> and R<sub>9</sub>, independently of one another, signify hydrogen or C<sub>1</sub>-C<sub>2</sub>-alkyl;

Y signifies C(O);

a signifies 1: and

n is 2.

28. A compound of formula I, according to claim 1, having the name N-[1-cyano-1-methyl-2-(5-nitroindazol-1-yl)-ethyl]-4-trifluoromethoxybenzamide.

29. Process for the preparation of compounds of formula I, respectively in free form or in salt form, according to claim 1, whereby a compound of formula

which is known or may be produced analogously to corresponding known compounds, and wherein  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$  and a are defined as given for formula I, is reacted with a

compound of formula

$$Q-Y-R_7$$
 III,

which is known or may be prepared analogously to corresponding known compounds, and wherein Y and  $R_7$  are defined as given for formula I and Q is a leaving group, optionally in the presence of a basic catalyst, and if desired, a compound of formula I obtainable according to the method or in another way, respectively in free form or in salt form, is converted into another compound of formula I, a mixture of isomers obtainable according to the method is separated and the desired isomer isolated and/or a free compound of formula I obtainable according to the method is converted into a salt or a salt of a compound of formula I obtainable according to the method is converted into the free compound of formula I or into another salt.

30. Process for the preparation of compounds of formula II, respectively in free form or in salt form, according to claim 29, whereby a compound of formula

$$\begin{array}{c|c}
R_1 \\
R_2
\end{array}$$

$$\begin{array}{c|c}
R_3 \\
R_4
\end{array}$$

$$\begin{array}{c|c}
R_5
\end{array}$$

$$\begin{array}{c|c}
IV,\\
\end{array}$$

which is known or may be produced analogously to corresponding known compounds, in which  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$  and a are defined as for formula I, is reacted with an inorganic or organic cyanide and a compound of formula  $R_6$ -NH $_2$ , which is known or may be produced analogously to corresponding known compounds and wherein  $R_6$  is defined as for formula I, and if desired, a compound of formula II obtainable according to the method or in another way, respectively in free form or in salt form, is converted into another compound of formula II, a mixture of isomers obtainable according to the method is separated and the desired isomer isolated and/or a free compound of formula II obtainable according to the method is converted into a salt or a salt of a compound of formula II obtainable according to the method is converted into the free compound of formula II obtainable according to the

- 31. Composition for the control of parasites, which contains as active ingredient at least one compound of formula I according to claim 1, in addition to carriers and/or dispersants.
- 32. Use of compounds of formula I according to claim 1 in the control of parasites.
- 33. Method of controlling parasites, whereby an effective amount of at least one compound

of formula I according to claim 1 is used on the parasites.

- 34. Use of a compound of formula I according to claim 1 in a process for controlling parasites on warm-blooded animals.
- 35. Use of a compound of formula I according to claim 1 in the preparation of a pharmaceutical composition against parasites on warm-blooded animals.

#### INTERNATIONAL SEARCH REPORT

Interna Application No PCT/EP 03/05992

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D231/56 A01N A01N43/56 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) CO7D A01N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Α EP 0 953 565 A (NIHON NOHYAKU CO LTD) 1,31 3 November 1999 (1999-11-03) cited in the application claims 1,4 DE 196 42 863 A (BAYER AG) 1,31 A 23 April 1998 (1998-04-23) claims 1,9 US 4 943 584 A (THEOBALD HANS ET AL) Α 1,31 24 July 1990 (1990-07-24) column 1, line 6 -column 2, line 58 Further documents are listed in the continuation of box C. X Patent family members are listed in annex. ° Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filling date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 20 August 2003 28/08/2003 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Riswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Fanni, S

## INTERNATIONAL SEARCH REPORT

nal application No. PCT/EP 03/05992

Int

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: 33,34 because they relate to subject matter not required to be searched by this Authority, namely:  see FURTHER INFORMATION sheet PCT/ISA/210
See FURTHER INFORMATION SHeet PC1/15A/210
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest
No protest accompanied the payment of additional search fees.

## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims  $\,$  33 and 34  $\,$  are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Claims Nos.: 33,34

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

## INTERNATIONAL SEARCH REPORT

information on patent family members

Interna application No
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